PHILIPS 28PV7806

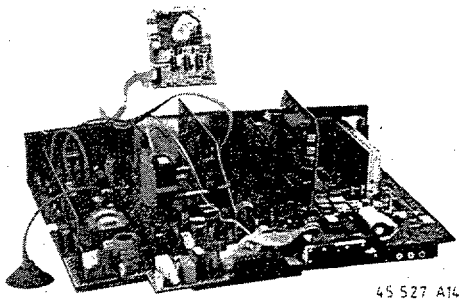
MODEL

SERVICE MANUAL

Colour television CHASSIS FL1.0

AA

Service
Service
Service



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Service Manual

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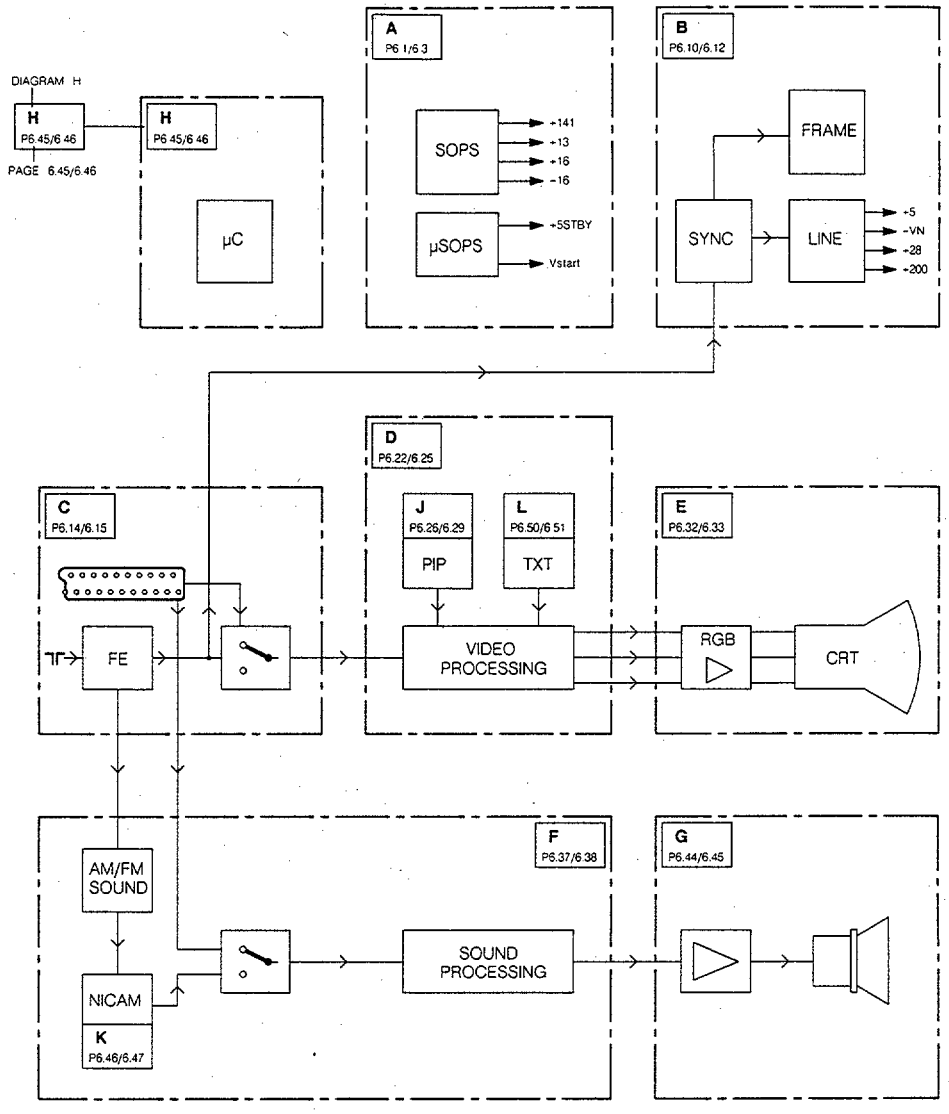


PRS 06755
T-26/039

TECHNICAL DATA

Mains voltage	: 220 - 240 V (±10%); 50-60Hz (±5%)
Aerial imput impedance	: 75 Ω - coax
Minimum aerial voltage	: 30µV (VHF/S)/40µV (UHF)
Maximum aerial voltage VHF/S/UHF	: 180mV
Pull-in range colour synchronization	: +300Hz/-300Hz
Pull-in range horizontal synchronization	: +200Hz/-300Hz
Pull-in range vertical synchronization	: +5Hz

Local operation functions:

- ⏻
- P +/-
- ◿ +/-
- PP store
- a red
- b green
- c yellow
- d blue
- e white
- installation
- OSD-language selection

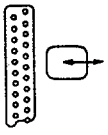
VCR programmes: PR0, 00, 50-59

Indications:

- On Screen Display (OSD)
- LED: - ⏻
  - ⏻
  - ∞
  - ⏮⏭
  - ⛶
  - I
  - II

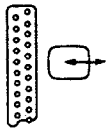
Connection facilities

EXT1 (AUX)



1 – Audio ⊖→ R (0.5V RMS ≤ 1kΩ)
2 – Audio →⊖ R (0.5V RMS ≥ 10kΩ)
3 – Audio ⊖→ L (0.5V RMS ≤ 1kΩ)
4 – Audio ⊥
5 – Blue ⊥
6 – Audio →⊖ L (0.5V RMS ≥ 10kΩ)
7 – Blue (0-2V DC/0,7V-PEAK : 75Ω)
8 – RC5 data 500-800mV$_{pp}$ + Status CVBS 0-2V (L) 10-12V (H)
9 – Green ⊥
10 – –
11 – Green (0-2V DC/0,7V-PEAK : 75Ω)
12 – –
13 – Red ⊥
14 – –
15 – Red (0-2V DC/0,7V-PEAK : 75Ω)
16 – RGB blanking 0-0.4V/75Ω (L) 1-3V/75Ω (H)
17 – CVBS ⊖→ ⊥
18 – CVBS →⊖ ⊥
19 – CVBS ⊖→ (1V$_{pp}$/75Ω)
20 – CVBS →⊖ (1V$_{pp}$/75Ω)
21 – Earth screen

EXT2 (VCR)



1 – Audio ⊖→ R (0.5V RMS ≤ 1kΩ)
2 – Audio →⊖ R (0.5V RMS ≥ 10kΩ)
3 – Audio ⊖→ L (0.5V RMS ≤ 1kΩ)
4 – Audio ⊥
5 – –
6 – Audio →⊖ L (0.5V RMS ≥ 10kΩ)
7 – –
8 – RC5 data 500-800mV$_{pp}$
9 – –
10 – –
11 – –
12 – –
13 – –
14 – –
15 – –
16 – –
17 – CVBS ⊖→ ⊥
18 – CVBS →⊖ ⊥
19 – CVBS ⊖→ (1V/75Ω)
20 – CVBS →⊖ (1V/75Ω)
21 – Earth screen

EXT2'

◎ CINCH Audio →⊖ L 0,2-2V RMS ≥ 10kΩ
◎ CINCH Audio →⊖ R 0,2-2V RMS ≥ 10kΩ

SVHS

1 – ⊥
2 – ⊥
3 – Y →⊖ 1V$_{pp}$/75Ω
4 – C →⊖ 1V$_{pp}$/75Ω

◎ CINCH Audio ⊖→ L 500mV ≤ 1kΩ
◎ CINCH Audio ⊖→ R 500mV ≤ 1kΩ

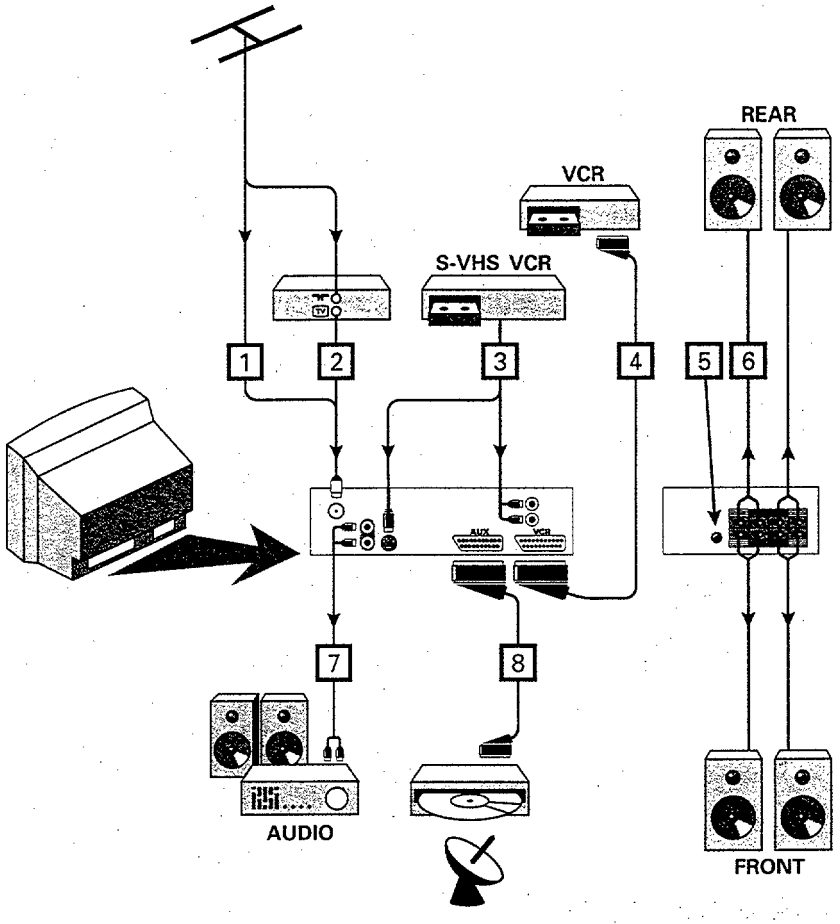
front : 2x12W/8Ω
back: 2x3W/8Ω

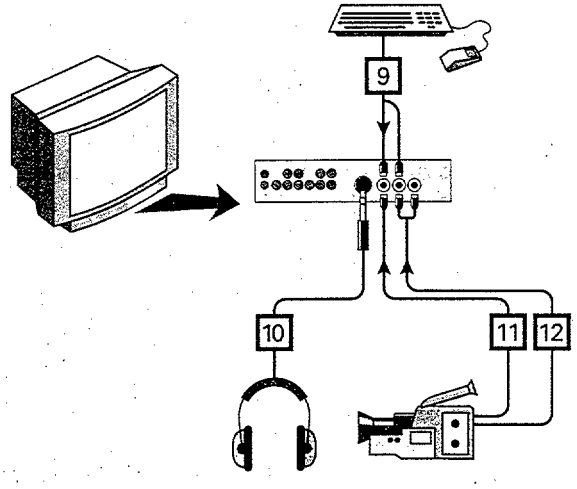
EXT3

Front

◎ CINCH CVBS →⊖ 300mV$_{PP}$/75Ω
◎ CINCH Audio →⊖ L 0,2-2V RMS ≥ 10kΩ
◎ CINCH Audio →⊖ R 0,2-2V RMS ≥ 10kΩ
◎ 6.3mm ⊓/🎧 32 – 2000 Ω ≥ 10mW

External connections





Warnings and notes

WARNINGS

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol ⚠.

2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, the method shown in Fig.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).

3. **ESD**

   All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten the life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.

4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.

5. Be careful when taking measurements in the high-voltage section and on the picture tube.

6. Never replace modules or other components while the unit is switched on.

7. It is recommended that safety goggles are worn when replacing the picture tube.

8. When making settings, use plastic rather than metal tools.
   This will prevent any short circuits and the danger of a circuit becoming unstable.

9. The heat sinks are not connected to earth and should therefore not be connected to earth. In order to prevent measuring errors, the heat sinks should also not be used as a reference point for measurements (e.g. the heat sink for the sound output amplifiers is connected to the +16 volt supply).

10. On this unit the 140 volt supply voltage is not supplied via an interconnection on the deflection yoke to the line output transformer. When the deflection cable is detached, the +140 volt supply remains loaded. In order to unload the +140 volts, coil 5511 should be removed.

NOTES

1. The direct voltages and oscillograms should be measured with regard to the tuner earth (⊥), or hot earth (⊥ ϟ) as this is called.

2. The direct voltages and oscillograms shown in the diagrams should be measured in the **Service Default Mode** with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz.

   Service Default Mode:

   The service default mode is a fixed defined condition in which the unit can be set.
   The definitions are as follows:
   - all controllers in the centre position
     (except volume, which is set low)
   - set to 475.25 MHz
     - PAL I for UK
     - SECAM L for multi French
     - PAL/SECAM BG for multi Europe

   After the unit has been switched on, briefly connect pins S24 and S25 (on the small signal panel) shortly before switching on the service default mode. If the unit cannot be set to the service default mode, the child lock may have been activated (this should not be activated).

   Note: If, after switching on, the unit goes directly to standby and you cannot exit from this mode with P +/- on the local keyboard, the child lock has probably been activated.

   To deactivate the child lock, the following operating commands should be given with the remote control (see also § 9):
   "Program +" "menu" "blue" "red" "menu-" "menu off"

   You can only exit from the service default mode by switching the unit to standby with the remote control. In the service default mode "SERVICE" appears on the screen with five numbers of 2 digits, which show the last five error messages found.

   SERVICE 00 00 05 06 05

   During the service default mode the unit will accept all commands from the remote control or the local keyboard.
   The unit remains in the service default mode when the unit is switched off and on by the mains switch.

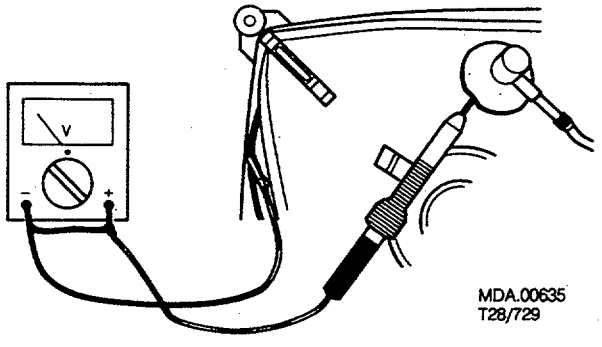


fig. 3.1

Mechanical instructions

3. Where necessary, the oscillograms and direct voltages are measured with (⌐⊓⌐) and without aerial signal (⌐⊓⌐). Voltages in the power supply section are measured both for normal operation (⏻) and in standby (⏻). These values are indicated by means of the appropriate symbols.

4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

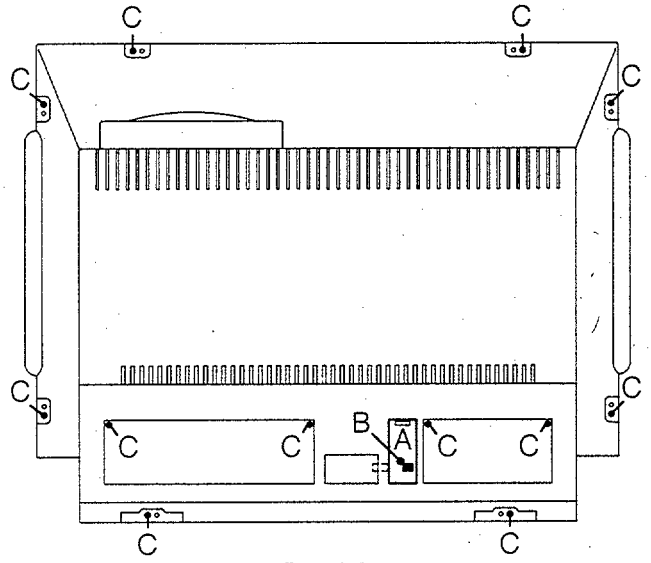
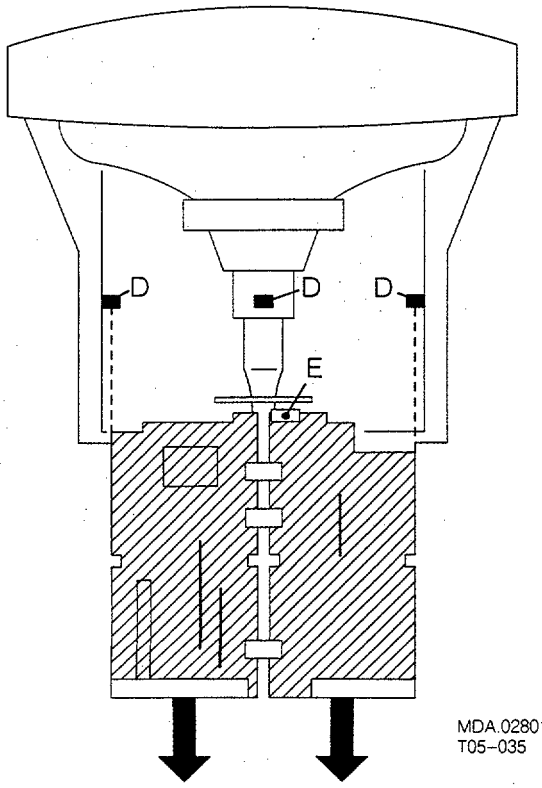


fig. 3.2

MDA.02803
T05-035



MDA.02801
T05-035

fig. 3.3

6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.

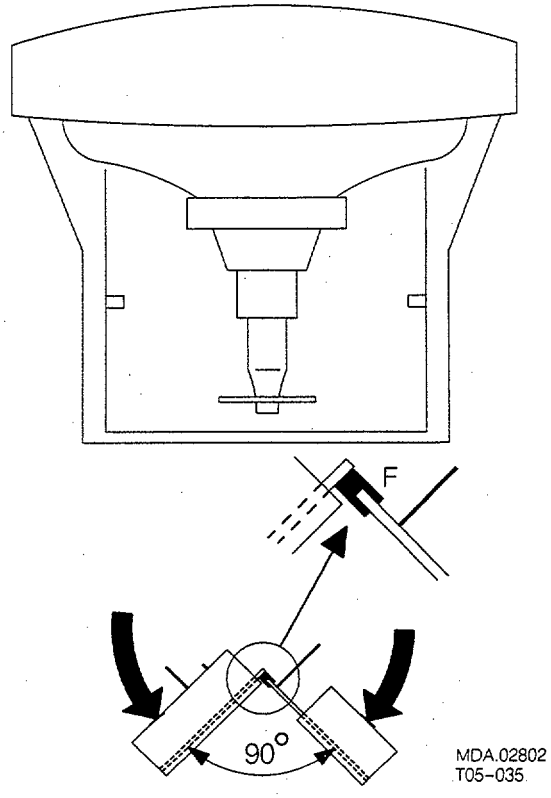
7. In the case of error searching and/or repair to the PIP module, the accessibility of the circuit and the components can be increased by using extension cards.
   5 times: 4822 395 30261
   10 times: 4822 395 30257

MECHANICAL INSTRUCTIONS

1. **Removing the back plate (Fig. 3.2)**
   Remove cover A from the back plate.
   Remove connector B (LI36) of the subwoofer.
   Remove attachment screws C from the back plate.
   Remove the back plate with the subwoofer fitted in it.
   Attach the back plate by carrying out the above in the reverse order.

2. **Service position to measure test points (Fig. 3.3)**
   Unlock the chassis panels by pressing locks D.
   Pull both chassis panels backwards at the same time until all measuring points are accessible.

3. **Service position for repair (Fig. 3.4)**
   Remove the LED display E (see Fig. 3.3) of the large signal panel.
   Tilt the back of the two panels and attach both panels using brackets F situated on the underside of the small signal panel, at an angle of 90° to one another.



MDA.02802
T05-035

fig. 3.4

Blockdiagram Blockschaltbild

BLOCKDIAGRAM FL1.0

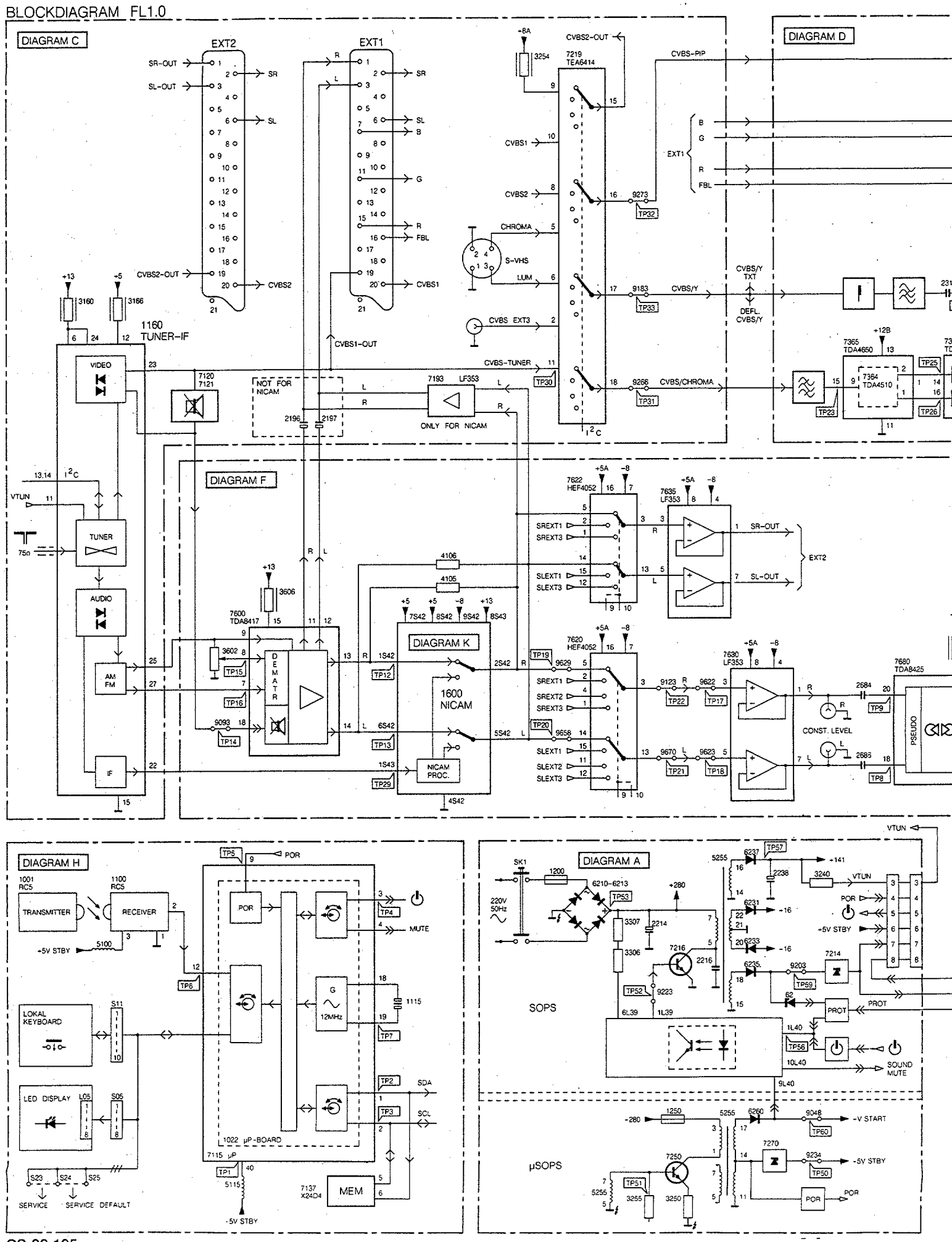
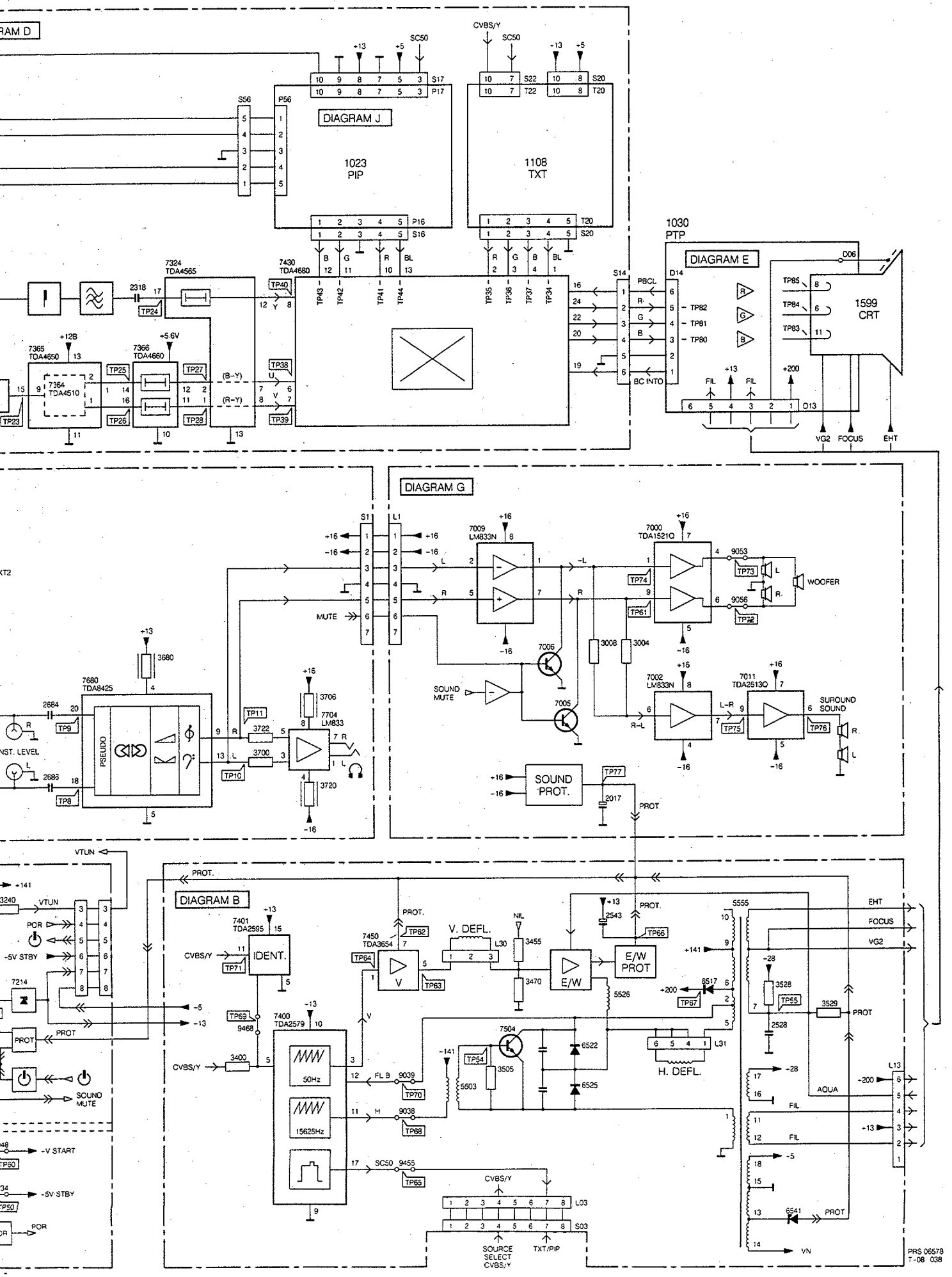
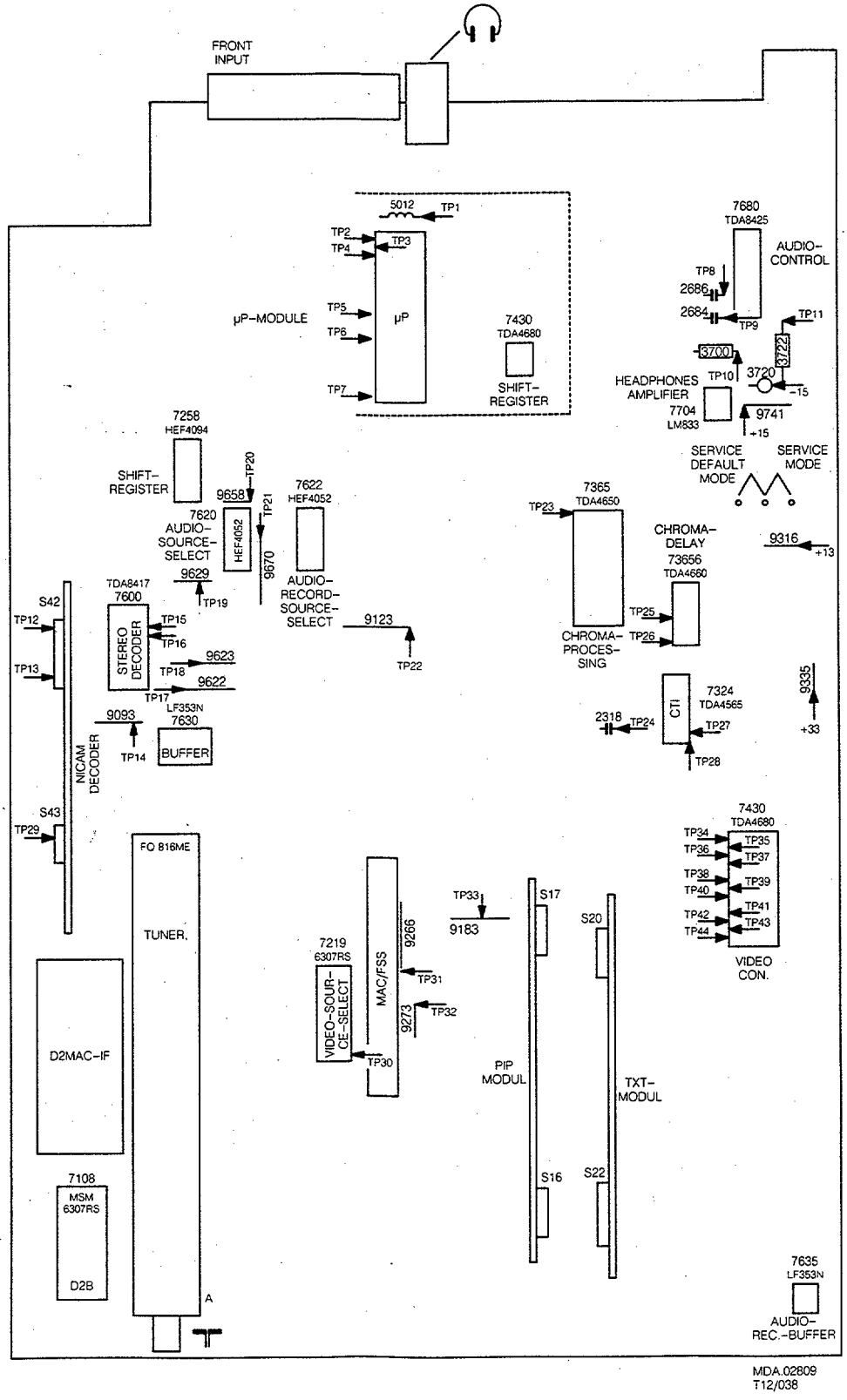


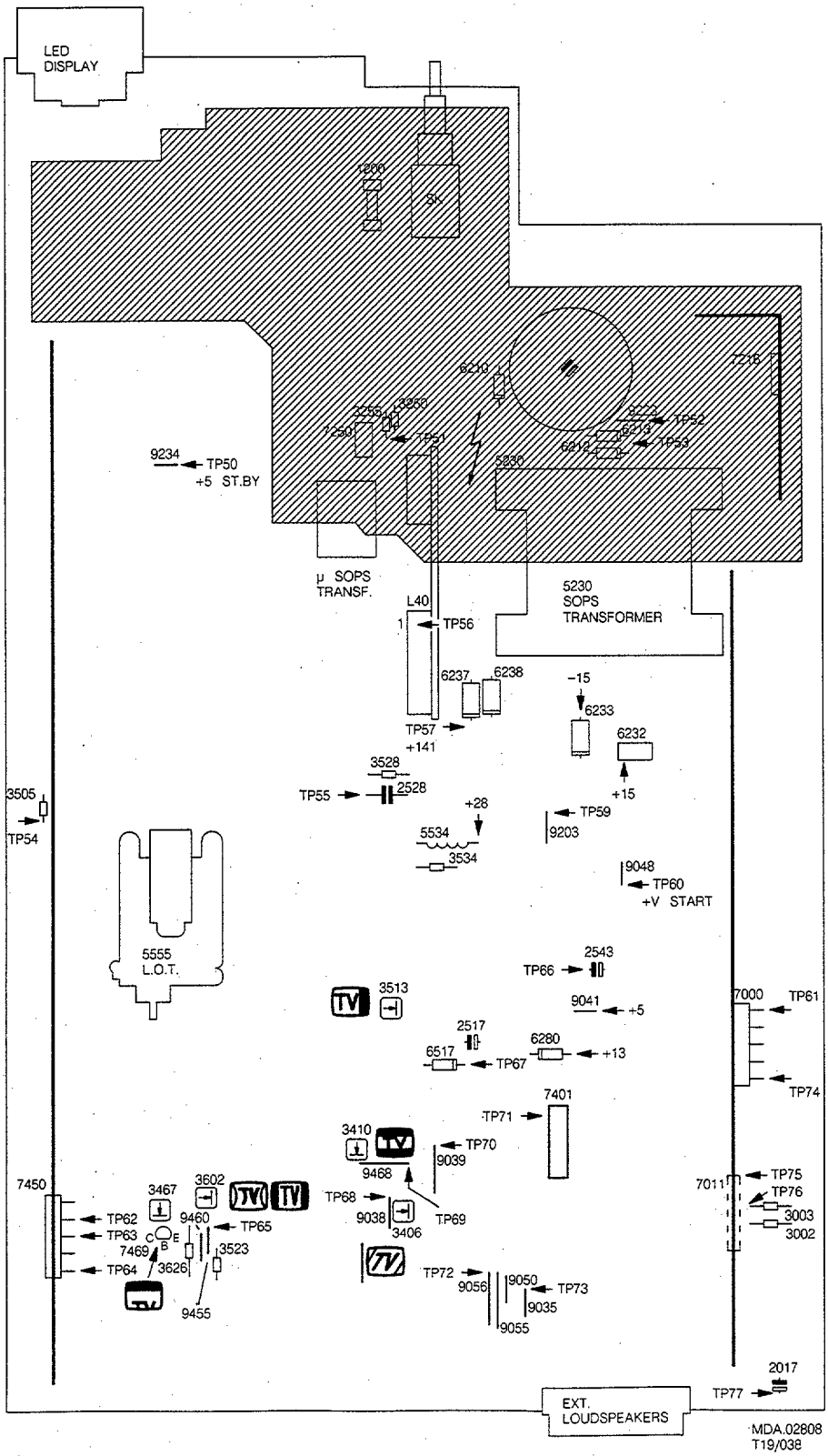
Diagramme schématique



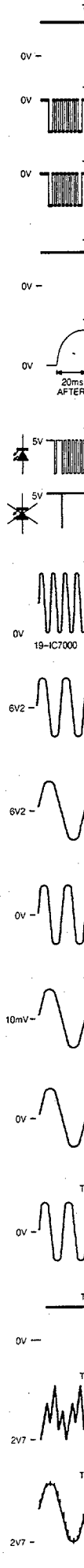
Small signal panel
Klein-signal Platine
Carte a petite signaux



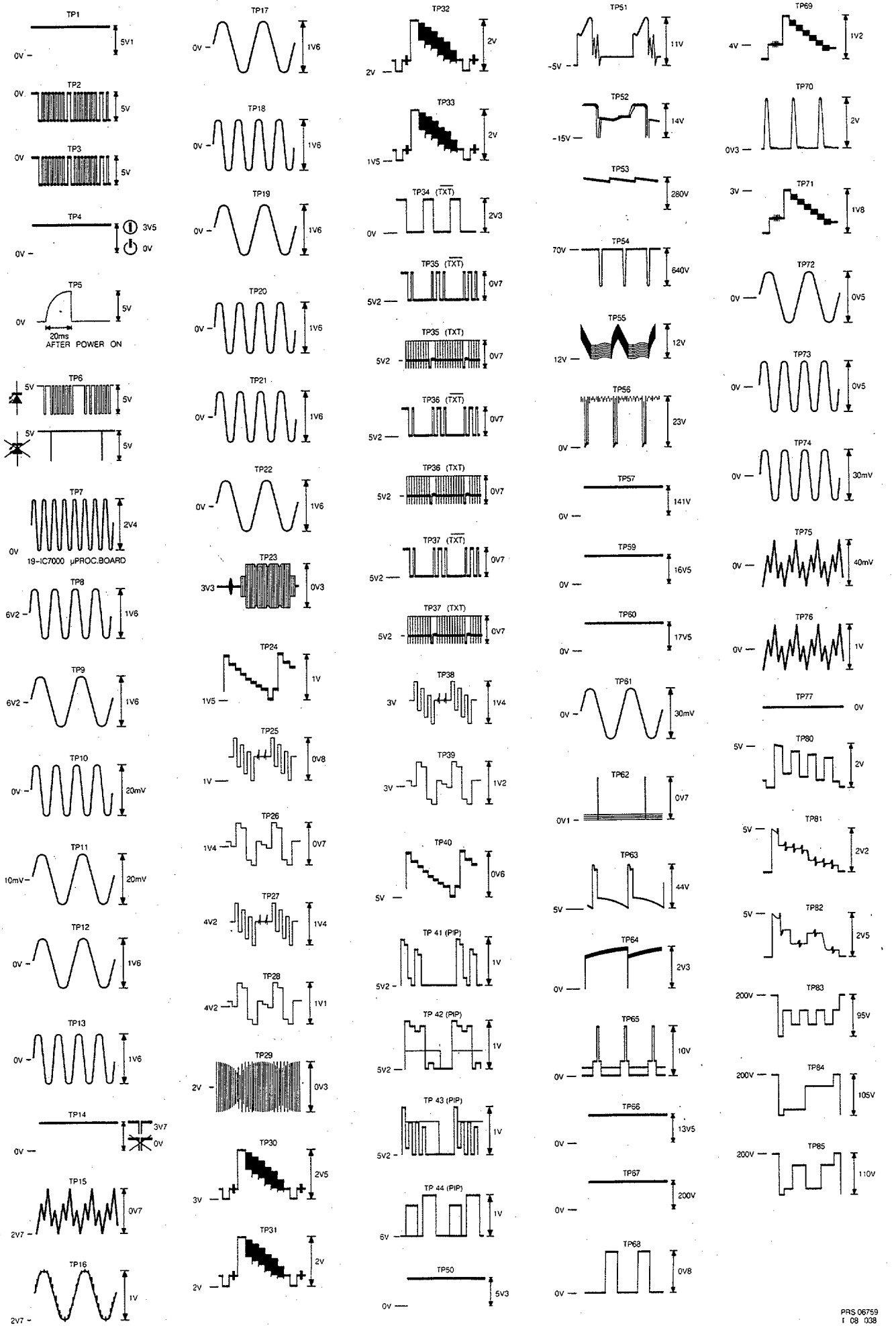
Large signal panel
Großsignal Platine
Carte à grande signaux



Oscill



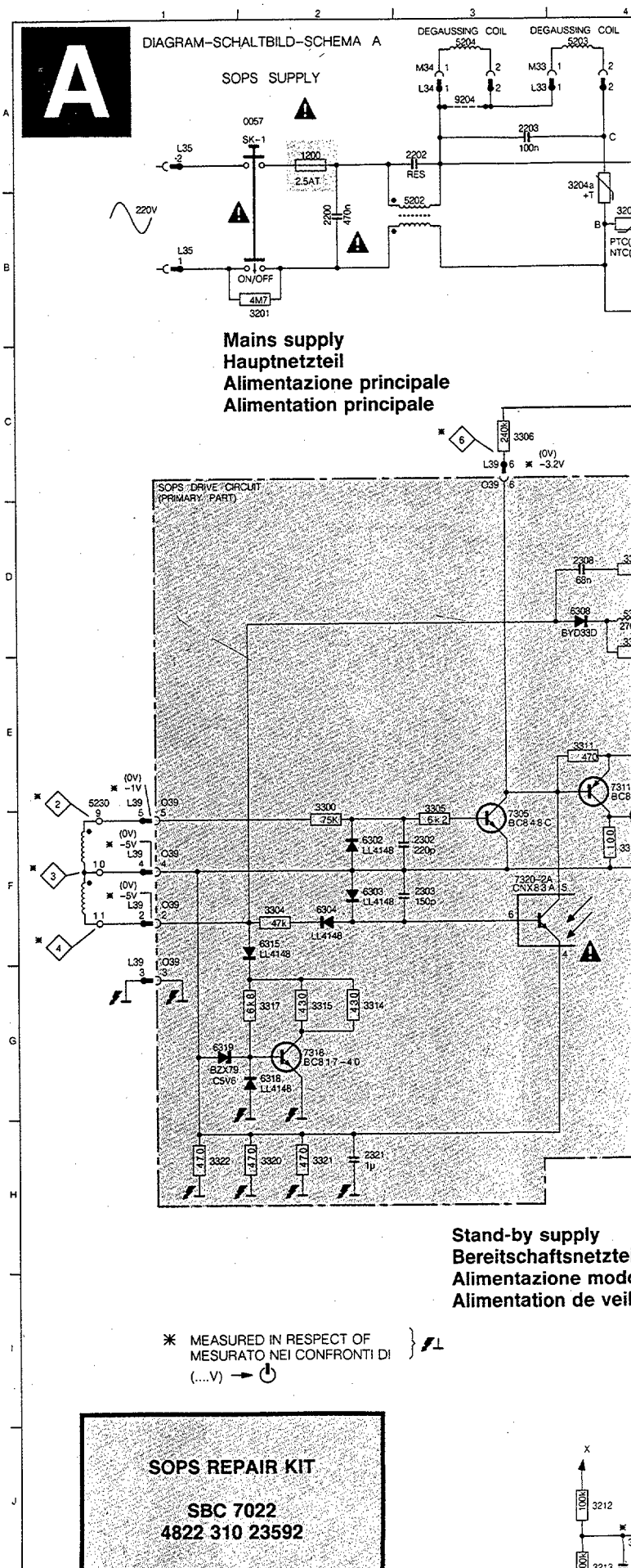
Oscillograms



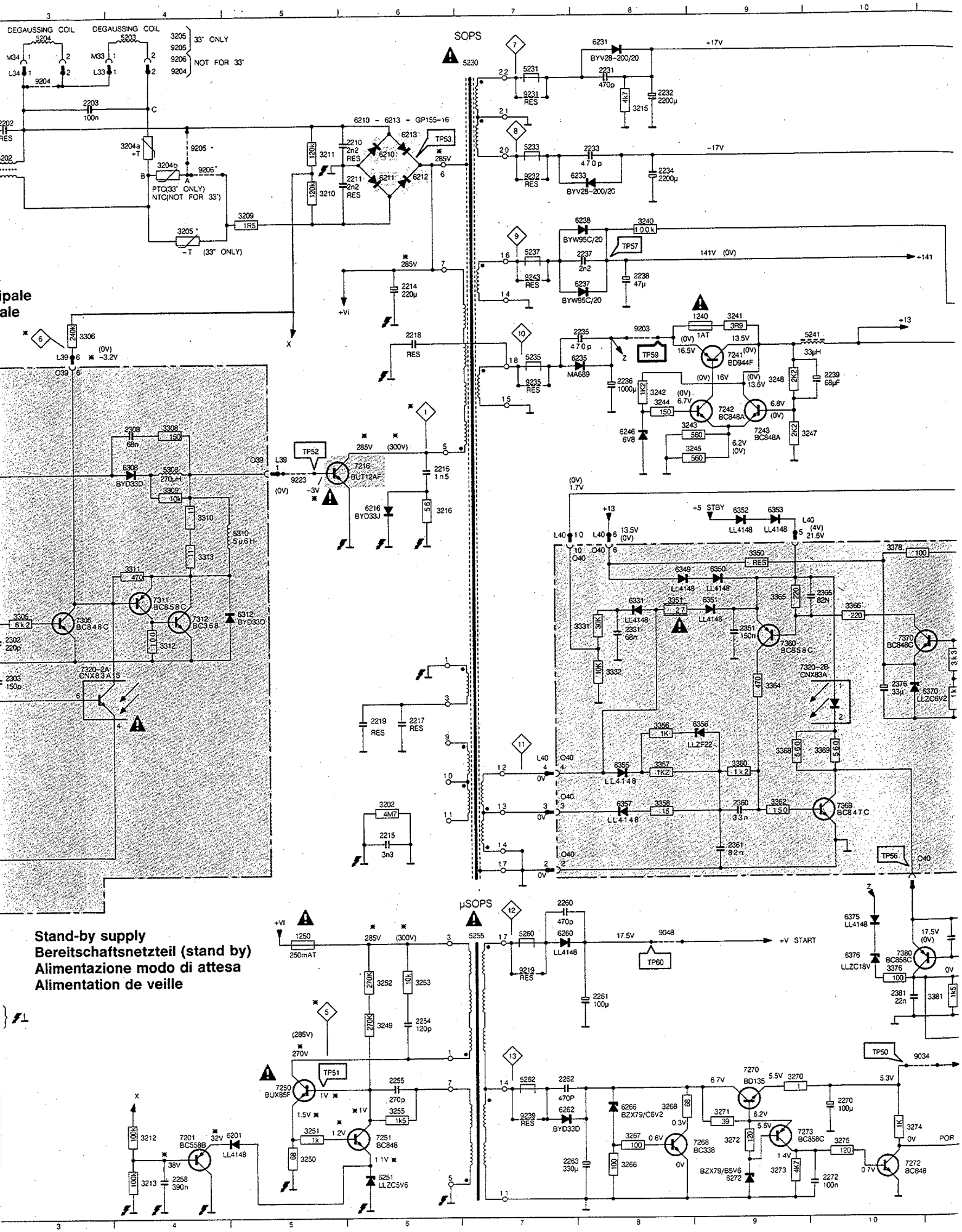
Power supply

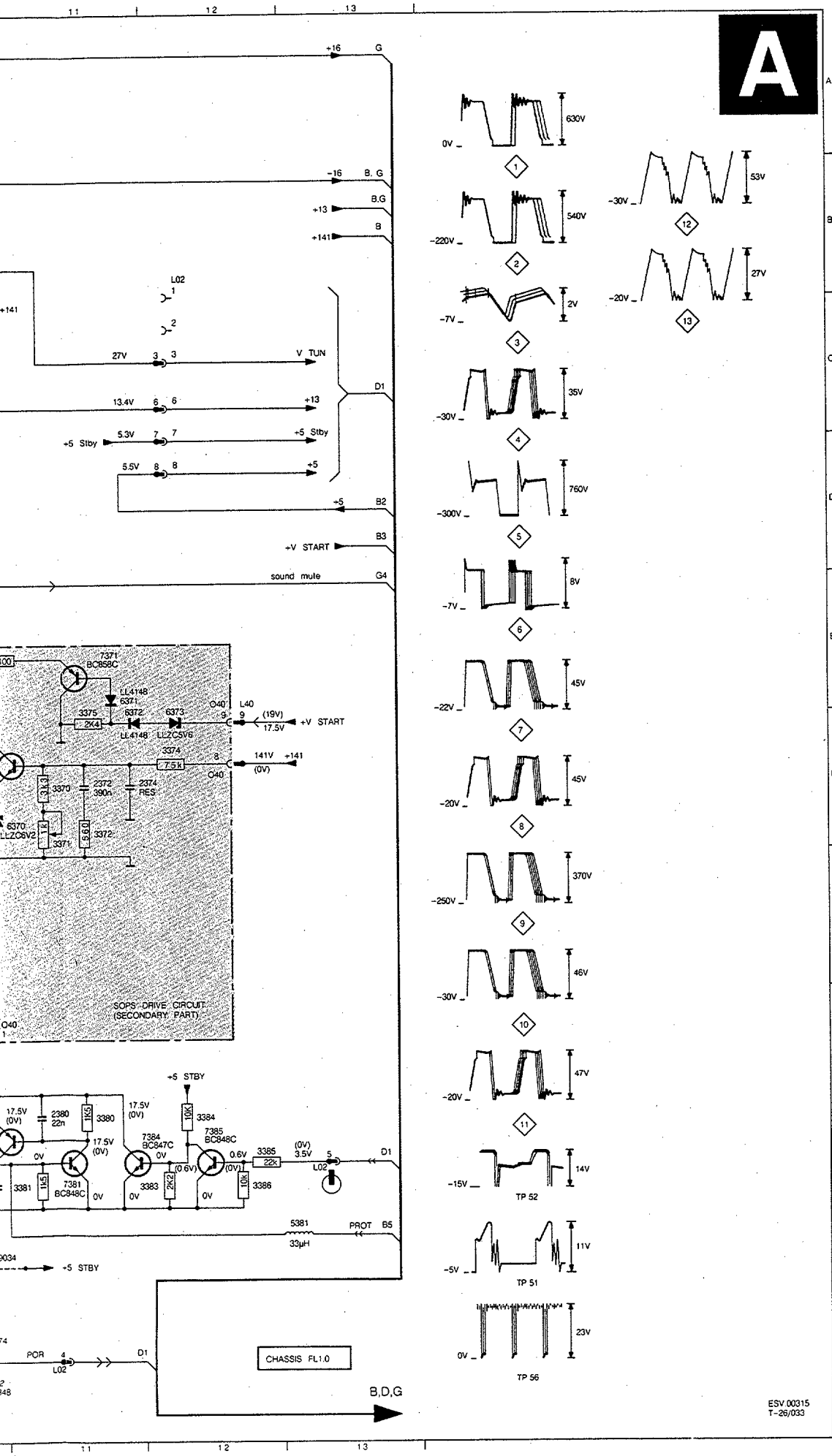
Stromversorgung

L'alimenta



L'alimentation





1200-A2
1240-C8
1250-H5
2200-B2
2202-A3
2203-A3
2210-B6
2211-B6
2214-C6
2215-H6
2216-D6
2217-G6
2218-C6
2219-F6
2231-A8
2232-A8
2233-B8
2234-B8
2235-C7
2236-D8
2237-C7
2238-C8
2239-D10
2250-I5
2254-I6
2255-J6
2258-K4
2260-H7
2261-I8
2262-J7
2263-J8
2270-J10
2272-J10
2302-F3
2303-F3
2308-D4
2321-H2
2331-F8
2351-F9
2360-G9
2361-H9
2365-E10
2372-F11
2374-F11
2376-F10
2380-I11
2381-I10
3201-B1
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3209-B5
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3252-I6
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3255-J6
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3275-J10
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9231-A7
9232-B7
9235-D7
9239-J7
9243-C7
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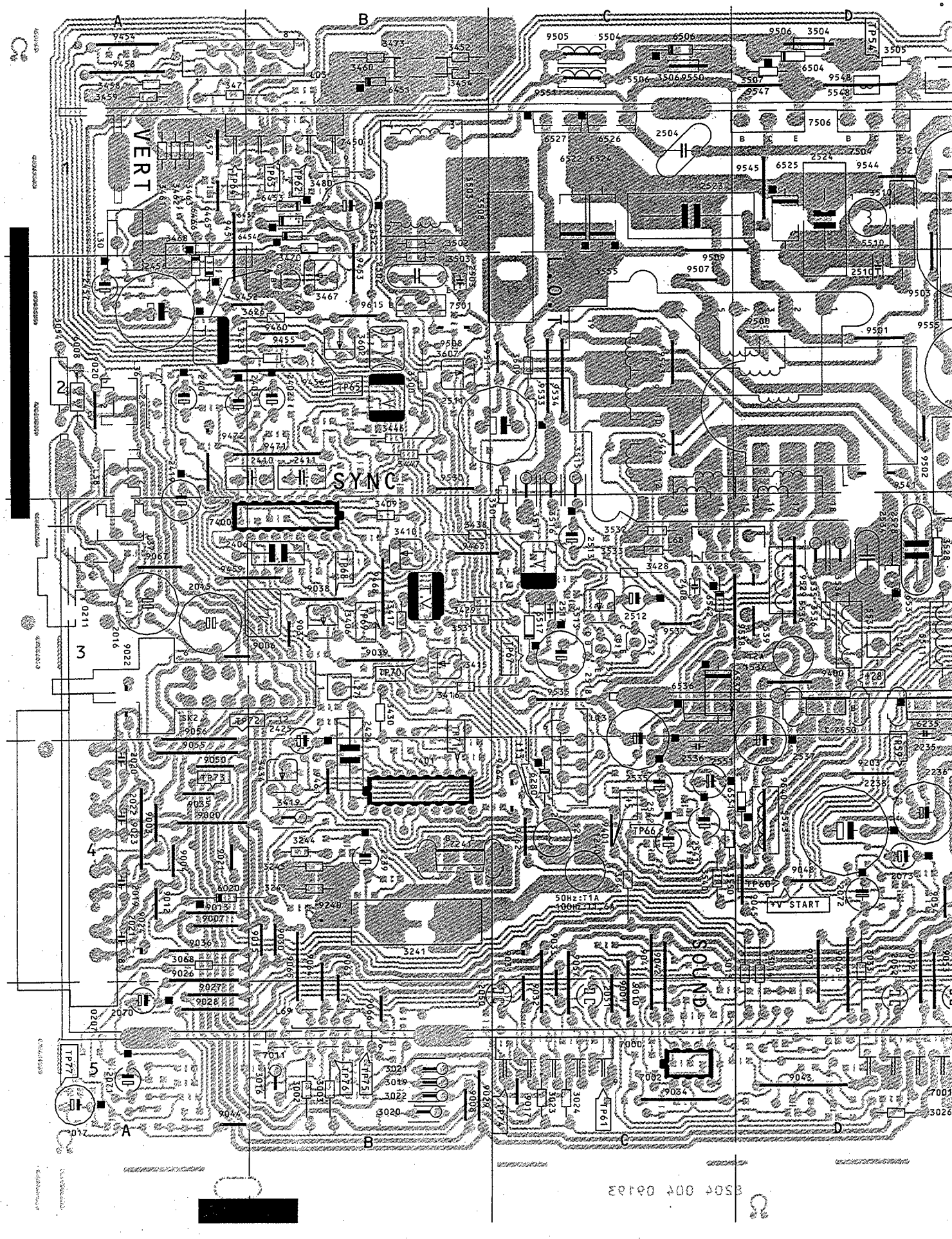
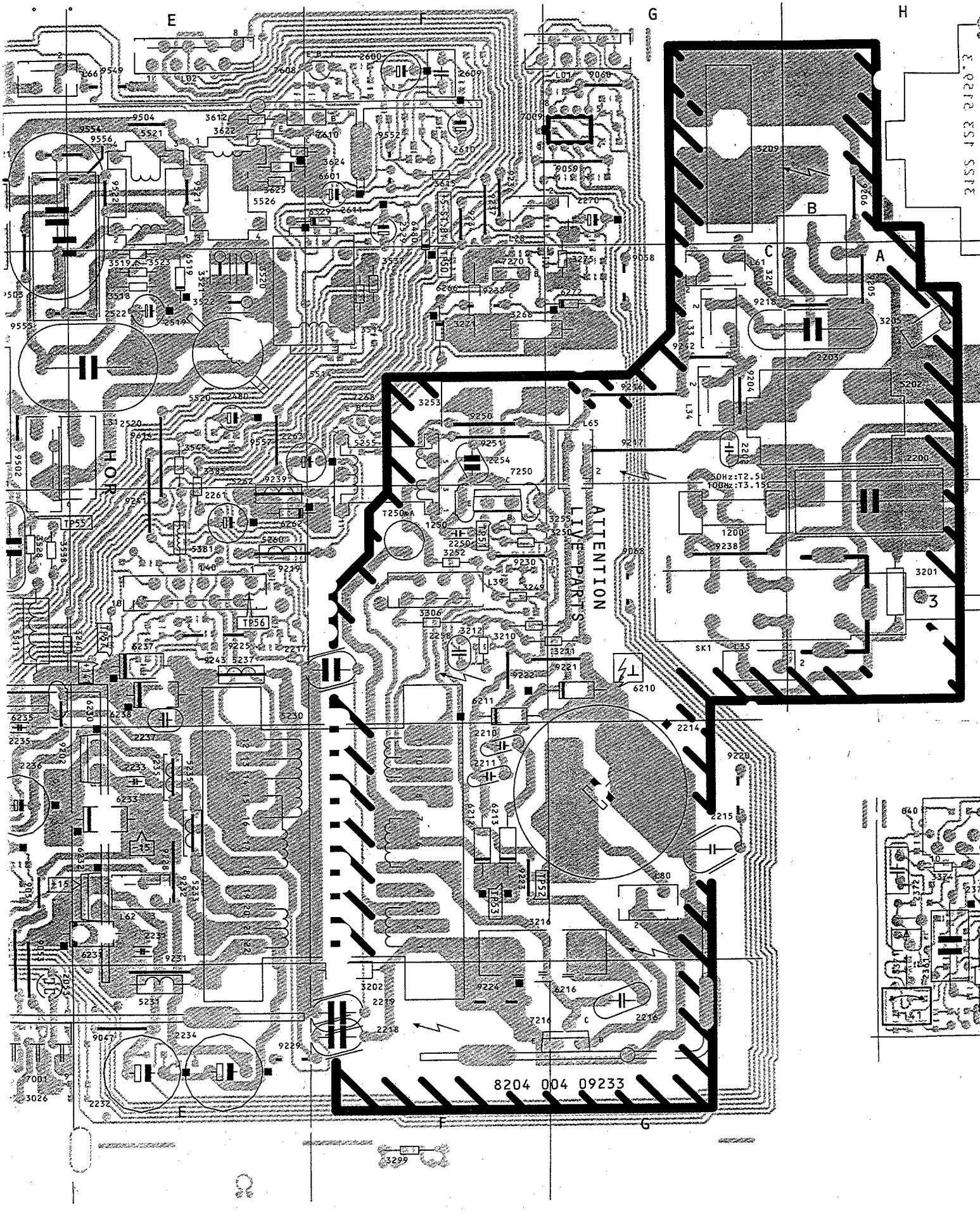
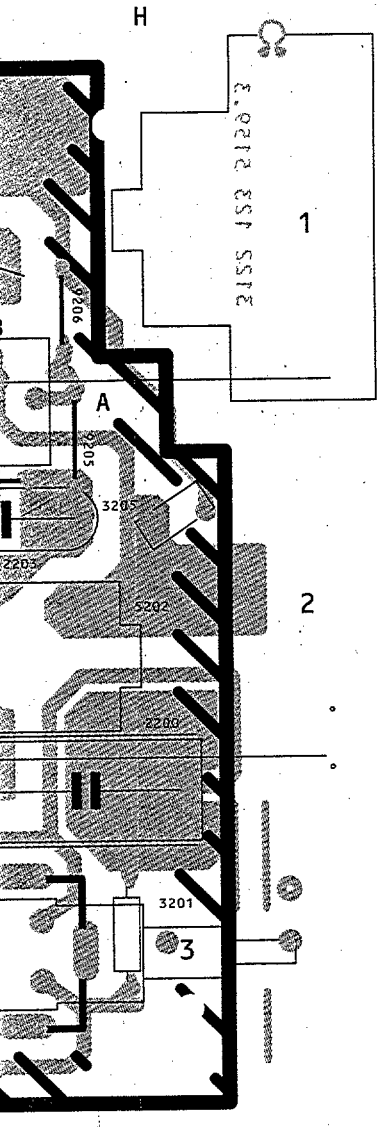
Large signal panel

Großsignal Platine

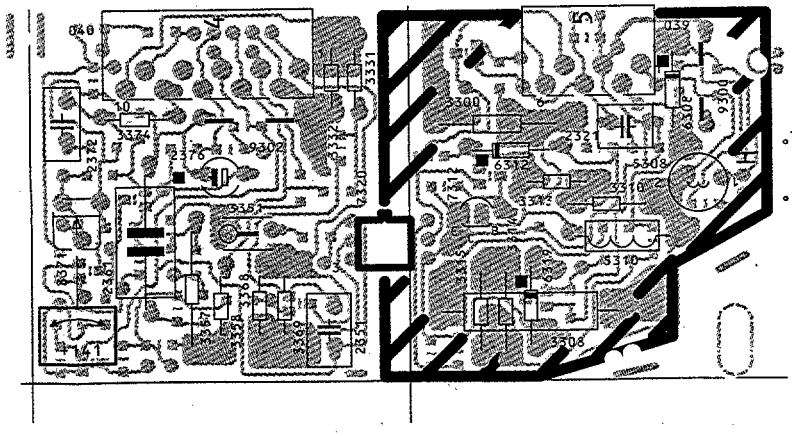


Carte à grande signaux





SOPS Control panel



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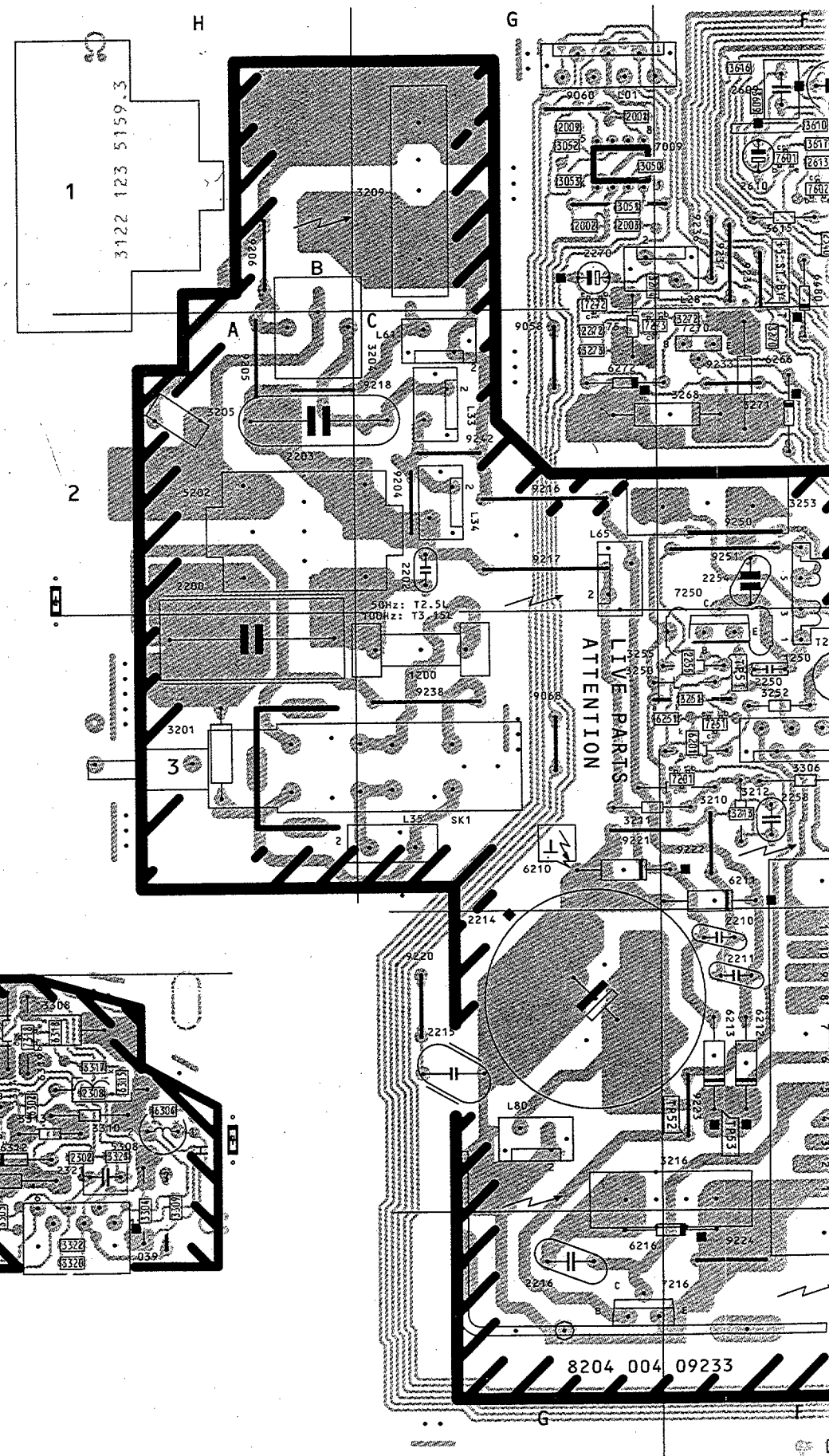
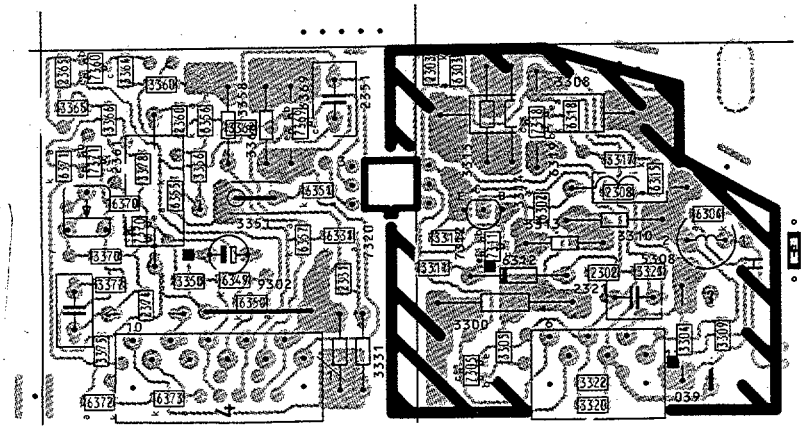
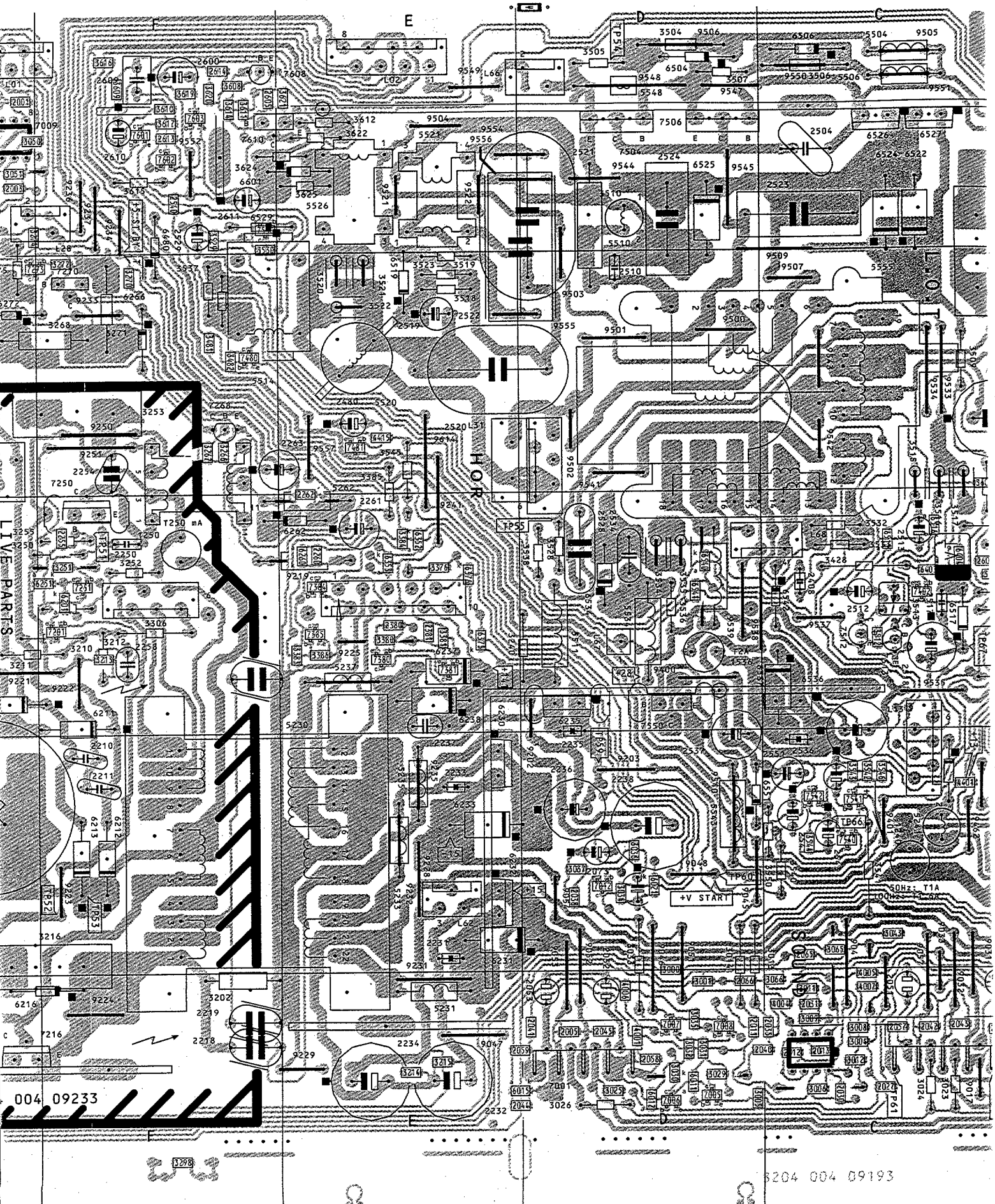
Large signal panel Großsignal Platine Carte

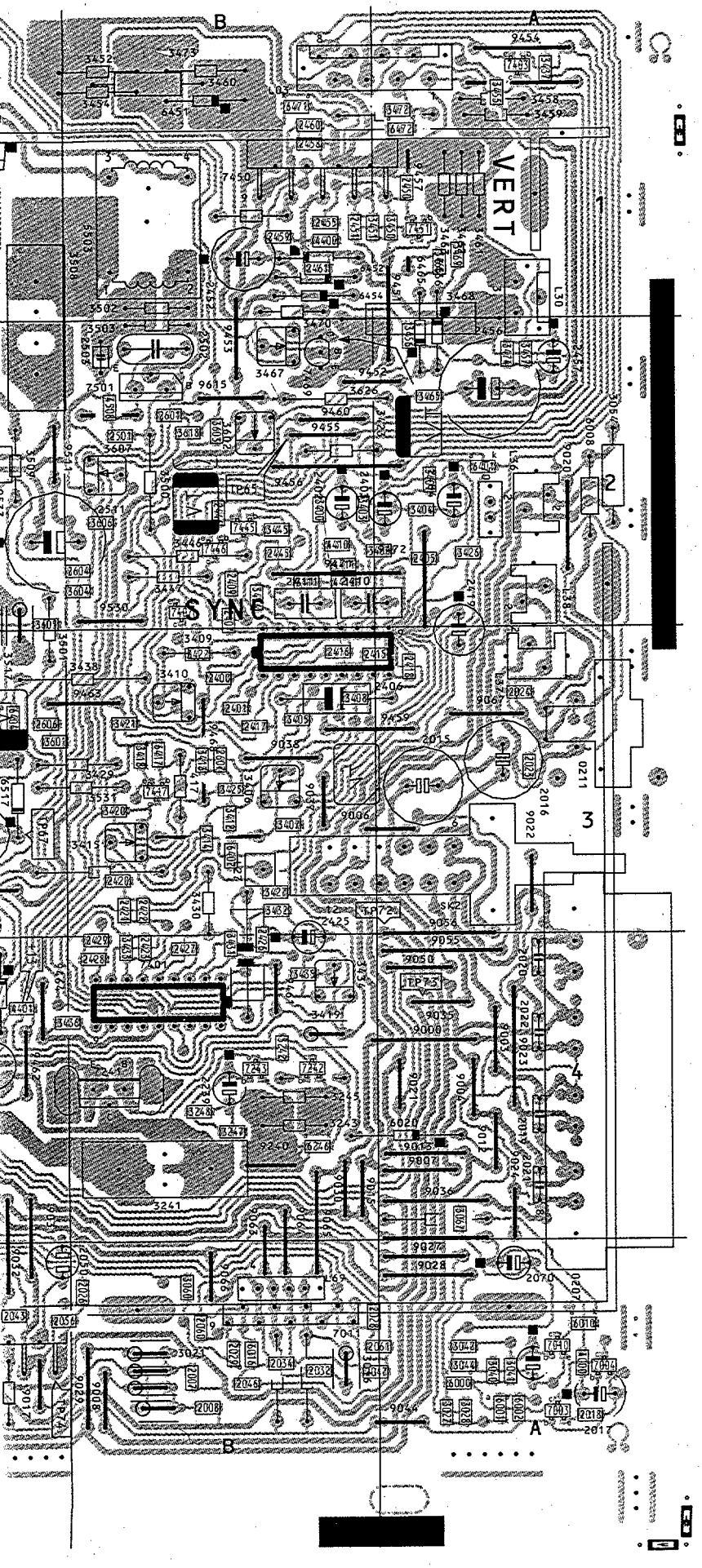


SOPS Control panel



Carte à grande signaux





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D3
F3
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L36 A2
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L39 F3
L40 E3
L61 G2
L62 E4
L65 G2
L66 D1
L67 D3
L68 D3
L69 B5
L70 A2
L80 G4
SK1 G3
SK2 B3

Synchronization Synchronisierung

B

DIAGRAM–SCHALTBILD–SCHEMA B

TABEL 1 (✳)

POS	21"	25"	28"	33"
2457	2µ2	1µ	1µ –	2µ2–
2520	270p	390n	390n	390n
2521	470n	560n	560n	680n
2523	9n1	10n	10n	10n
2524	18n	24n	24n	24n
2528	33n	47n	47n	47n
2604	1n8	820p	680p	1n8
2605	3n9	10n	8n2	3n9
2606	12n	2n7	3n3	12n
2607	–	1n	–	–
2614	–	82n	82n	–
3411	82k	51k	56k	82k
3413	3M9	1M	1M8	3M9
3456	100k	180k	180k	110k
3457	8k2	15k	15k	8k2
3469	2k7	4k7	4k7	2k7
3474	–	68k	68k	–
3508	3k9	2k2	2k2–	2k7–
3523	–	10k	10k	10k–
3538	6k8	470	470	1k
3605	20k	62k	51k	20k
3612	–	5k1	5k1	5k1
3626	120k	68k	82k	120k
5555	DSBE	DSBU50	DSBU50	DSBU50
6541	C8	C15	C15	C15

Synchronisation
Synchronisation
Sincronizzazione
Synchronisation

Identification
Identifikation
Identificazione
Identification

Vertical
Vertikal
Verticale
Vertical

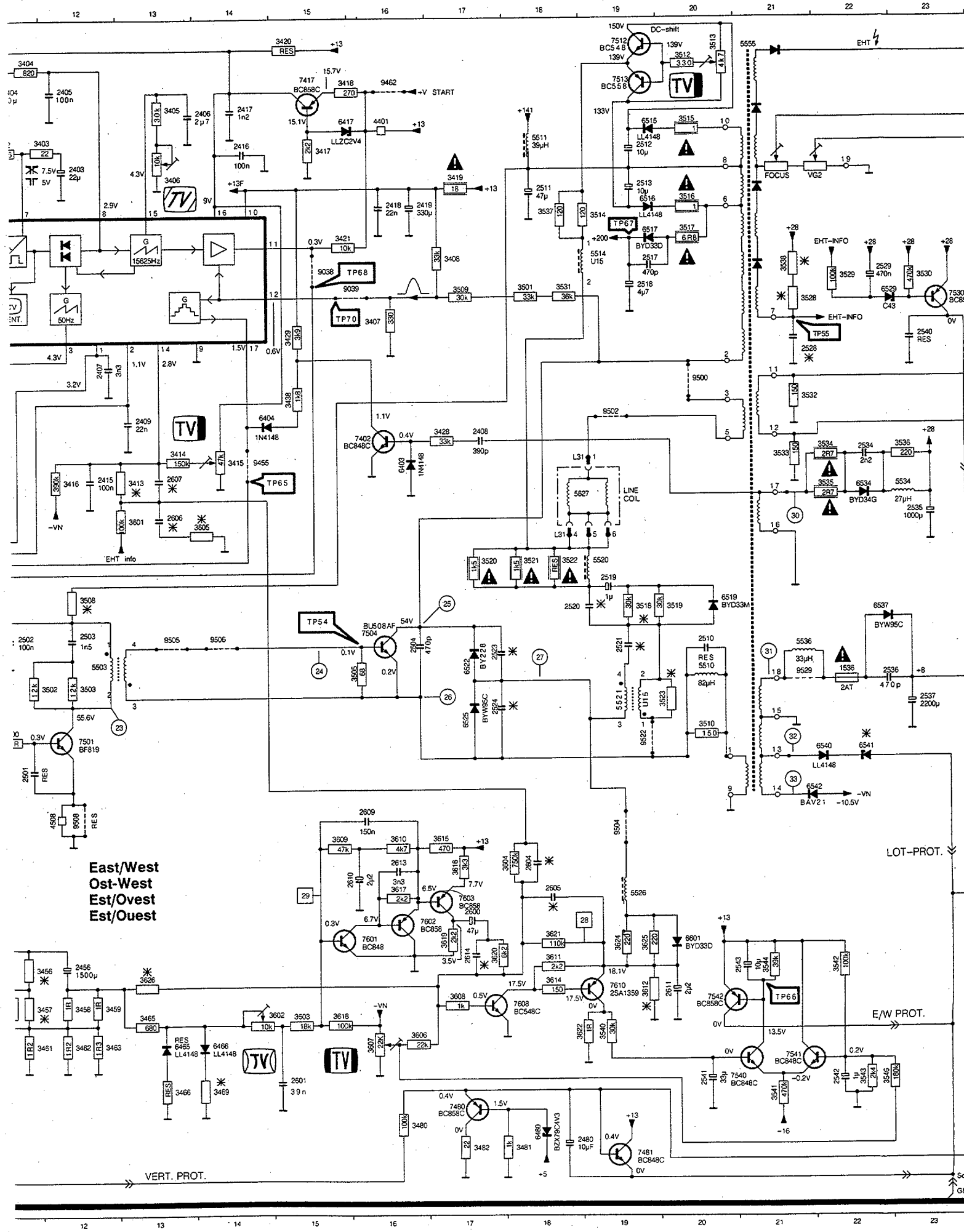
TV

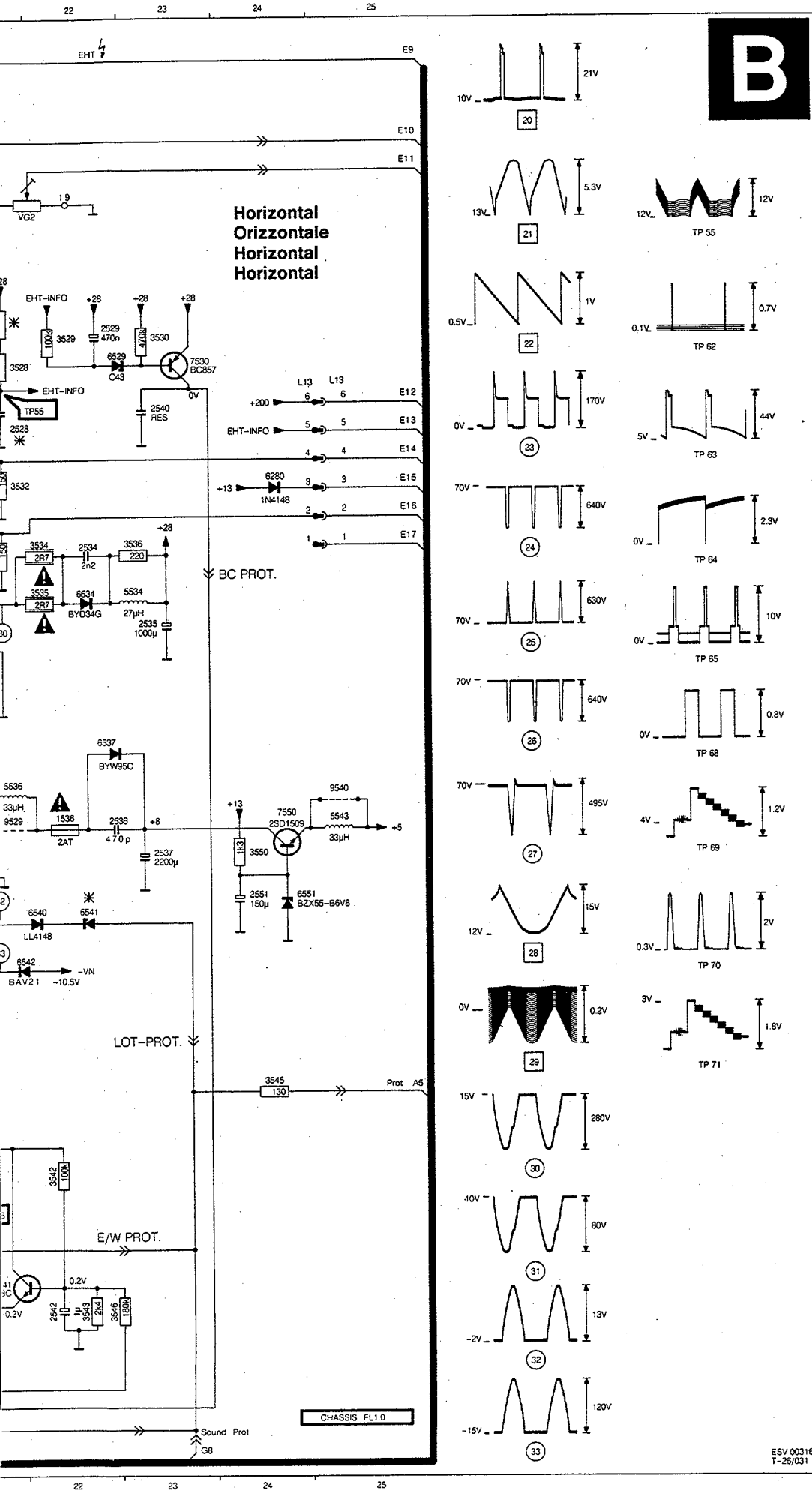
A, D, E

B7

NIL

Synchronizzazione





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2401	D10	3505	I 16				
2402	B10	3508	H12				
2403	B12	3509	D17				
2404	A11	3510	I 20				
2405	A12	3512	A20				
2406	A14	3513	A20				
2407	E12	3514	C19				
2408	F17	3515	B20				
2409	E13	3516	C20				
2410	F9	3517	C20				
2411	E10	3518	H19				
2415	F12	3519	H20				
2416	B14	3520	G17				
2417	A14	3521	G18				
2418	C16	3522	G18				
2419	C16	3523	I 20				
2420	A4	3528	D21				
2421	A4	3529	D22				
2422	A4	3530	D23				
2423	B6	3531	D18				
2424	C3	3532	E21				
2425	E4	3533	F21				
2426	D4	3534	F22				
2427	D6	3535	F22				
2428	B3	3536	F23				
2429	C3	3537	C18				
2445	J6	3538	C21				
2446	K4	3540	M19				
2450	M3	3541	N21				
2451	M3	3542	M22				
2452	M7	3543	N22				
2455	L4	3544	M21				
2456	L12	3545	K24				
2457	M11	3546	N22				
2458	N8	3550	I 24				
2459	M6	3601	G13				
2460	N8	3602	M14				
2461	M6	3603	M15				
2480	O18	3604	K17				
2501	J11	3605	G14				
2502	H11	3606	M16				
2503	H12	3608	M17				
2504	H16	3609	K15				
2510	H20	3610	K16				
2511	B18	3611	L18				
2512	B19	3612	M19				
2513	B19	3614	M18				
2517	C19	3615	K17				
2518	D19	3616	K17				
2519	G19	3617	K16				
2520	H18	3618	M15				
2521	H19	3619	L17				
2523	H17	3620	L17				
2524	I 17	3621	L18				
2528	E21	3622	M18				
2529	D22	3624	L19				
2534	F22	3625	L19				
2535	G23	3626	M13				
2536	I 22	4401	B16				
2537	I 23	4410	F10				
2540	D23	4411	F10				
2541	N20	4412	F10				
2542	N22	4508	K12				
2543	M20	5503	I 12				
2551	J24	5510	I 20				
2600	L17	5511	B18				
2601	N15	5514	C19				
2604	K18	5520	G19				
2605	K18	5521	I 19				
2606	G13	5526	L19				
2607	F13	5534	F23				
2609	J16	5536	H21				
2610	K15	5543	I 25				
2611	M20	5555	A21				
2613	K16	5627	F18				
2614	L17	6403	F16				
3400	C8	6404	E14				
3402	B11	6417	B16				
3403	B12	6451	N6				
3404	A11	6452	M7				
3405	A13	6453	M7				
3406	B13	6454	N7				
3407	D16	6465	N13				
3408	C17	6466	N14				
3409	E9	6480	O18				
3410	F9	6515	B19				
3411	E10	6516	C19				
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3449	L6	7504	H16				
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3452	O6	7541	N21				
3454	O7	7542	M20				
3455	N11	7550	I 24				
3456	M11	7601	L16				
3457	M11	7602	L16				
3458	M12	7603	L17				
3459	M12	7608	M18				
3461	N11	7610	M19				
3462	N12	7640	N20				
3463	N12	9038	D15				
3464	M10	9039	D16				
3465	M13	9455	F14				
3466	N13	9459	H6				
3467	N9	9462	A16				
3468	M10	9468	C9				
3469	N14	9500	E20				
3470	N10	9502	E19				
3473	N7	9504	K19				
3474	M11	9505	H13				
3480	O16	9506	H14				
3481	O18	9508	K12				
3482	O17	9522	J19				
3500	I 11	9529	I 21				
3501	D18	9540	H25				

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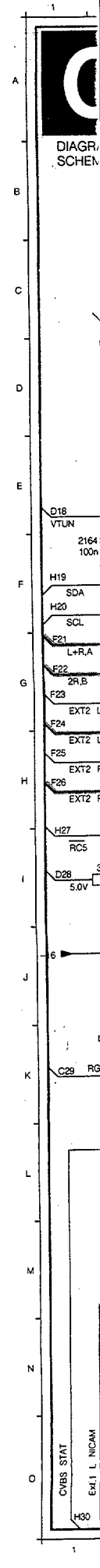

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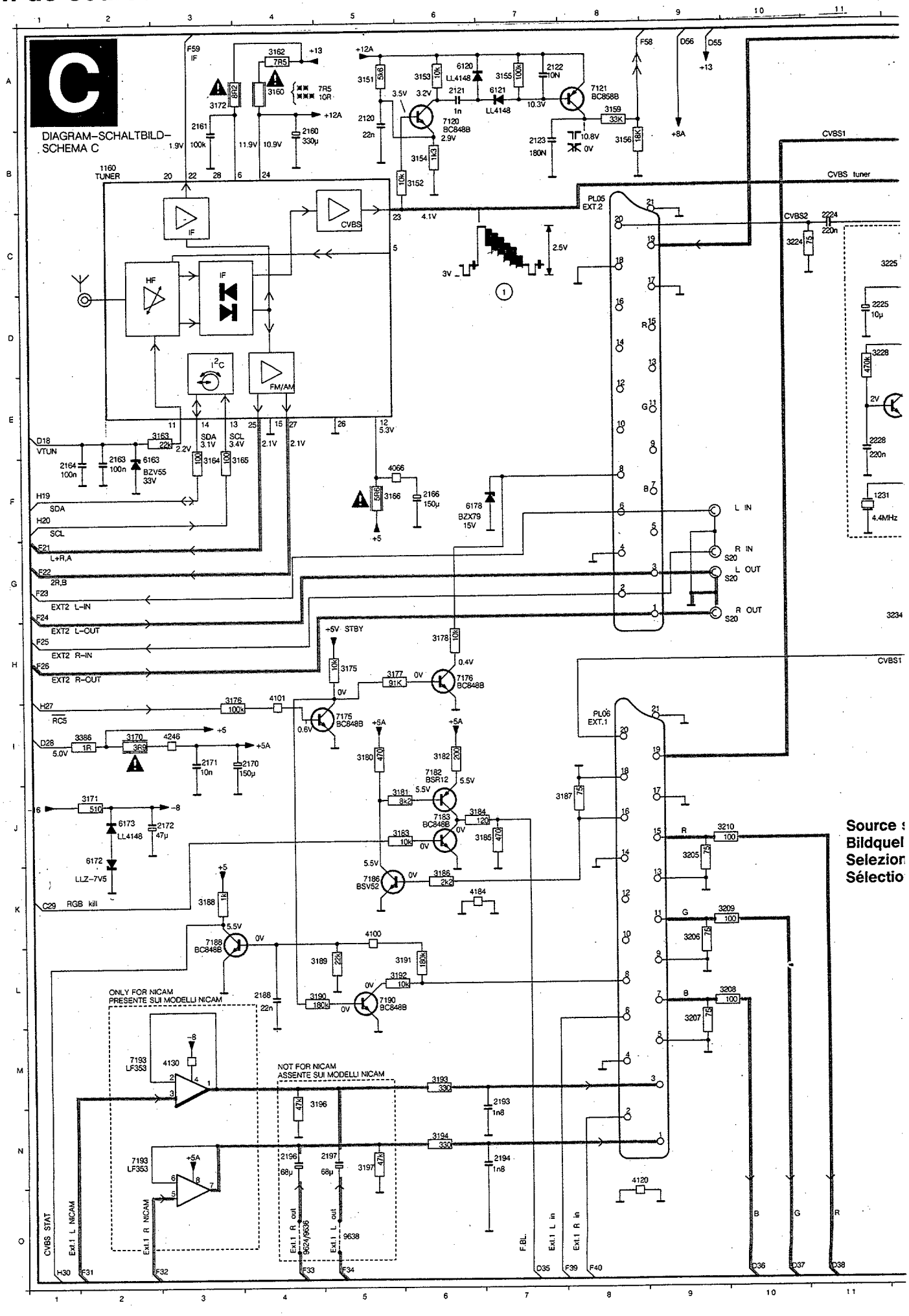

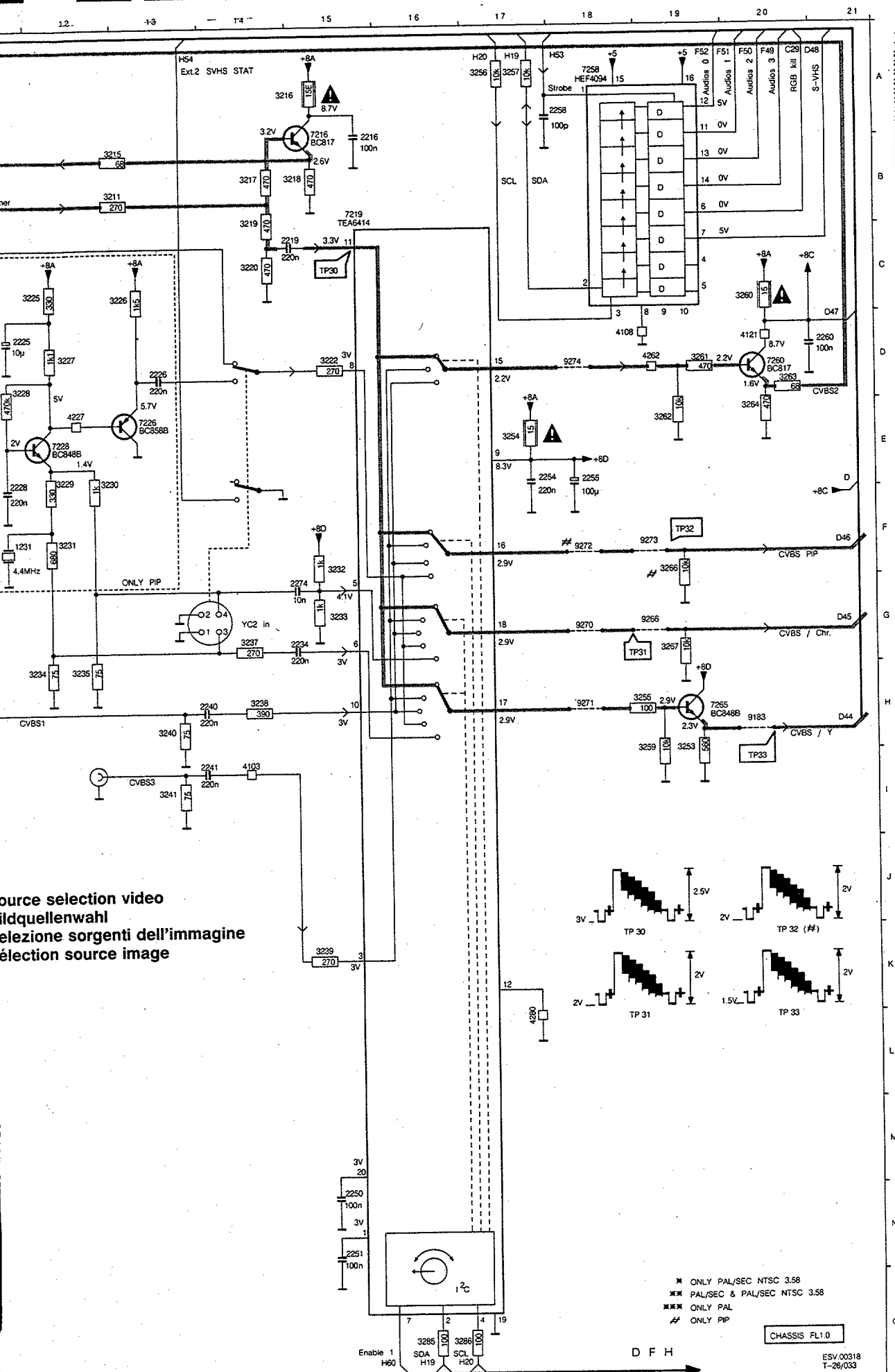

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2160 B4
2161 A3
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2171 I 3
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7265 H19
9183 H20
9266 G19
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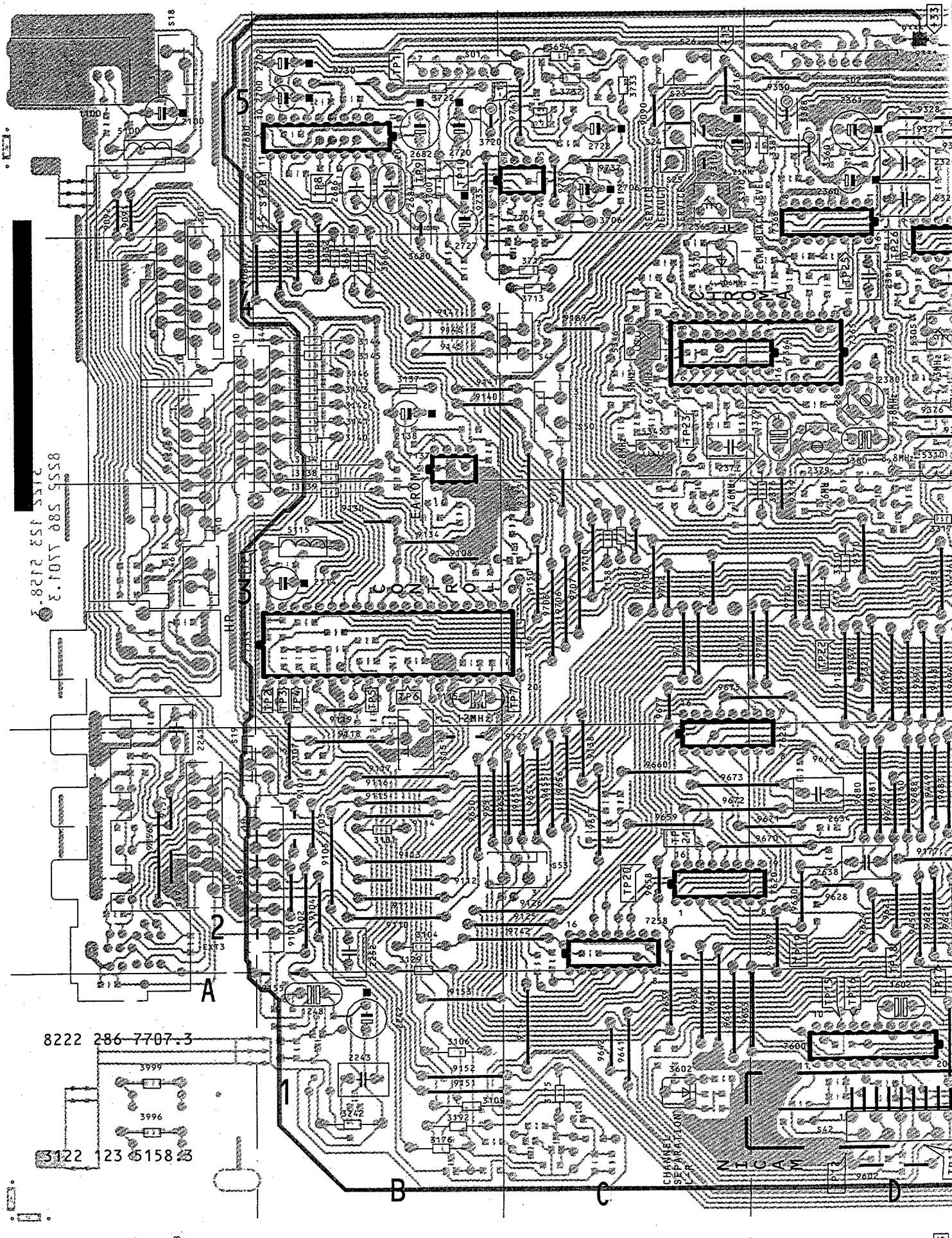
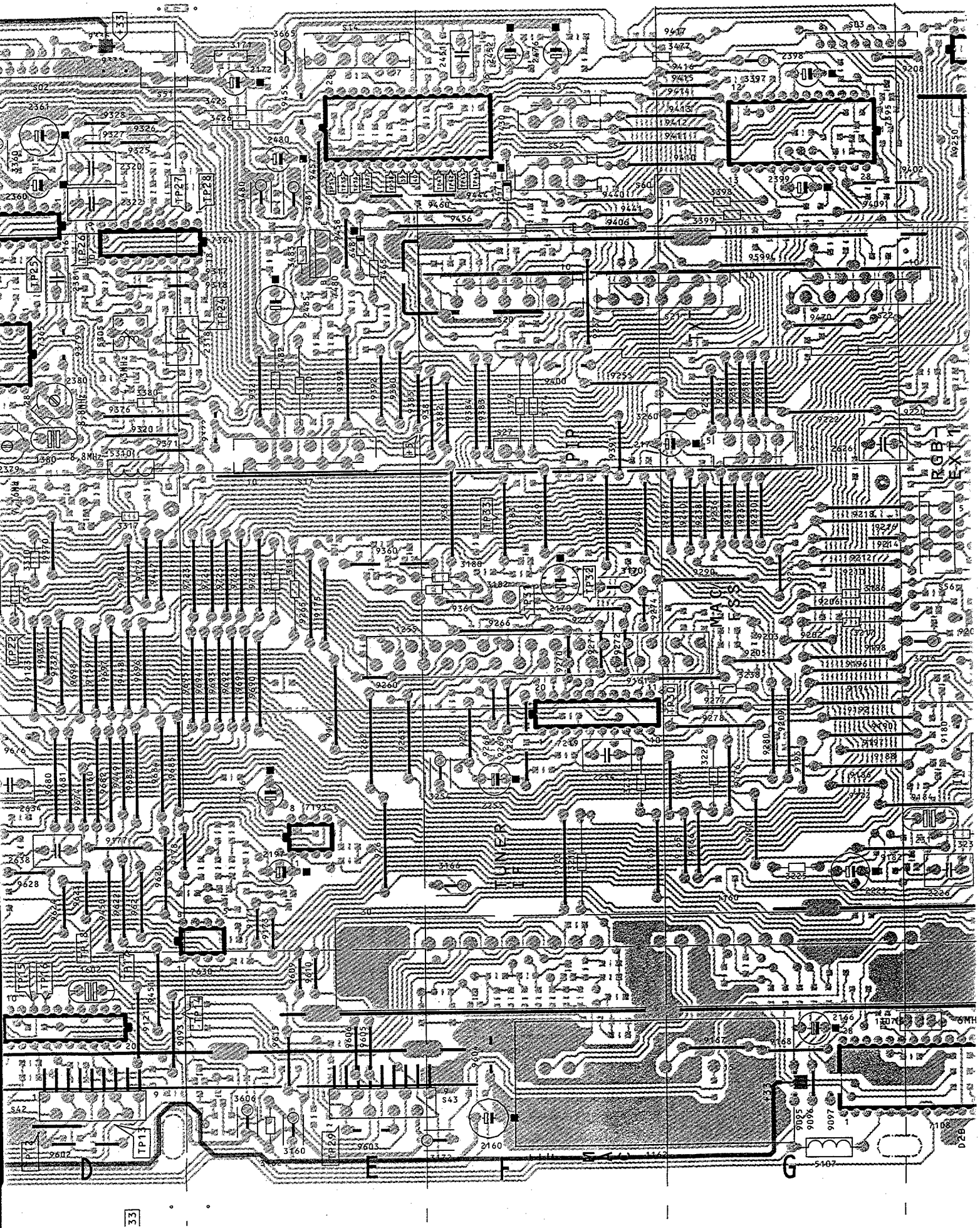
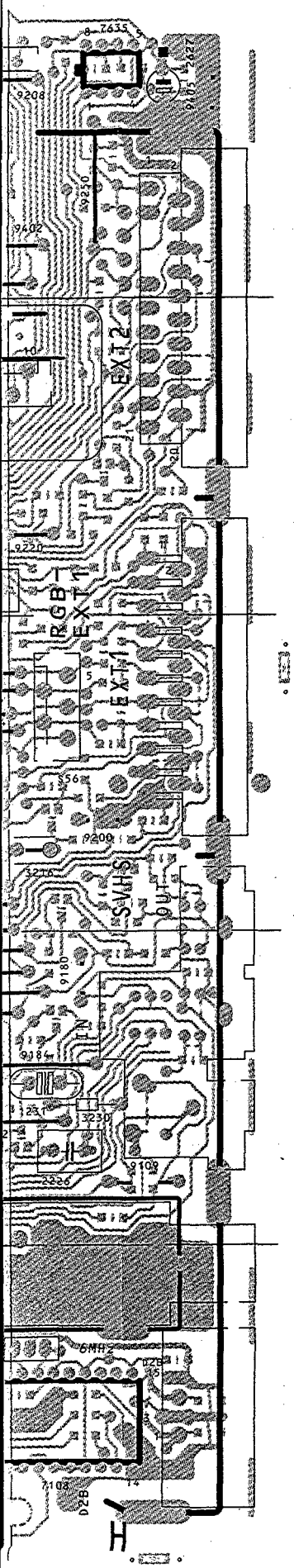
PL06 I 8

Small signal panel Klein-signal Platine



Carte à petite signaux





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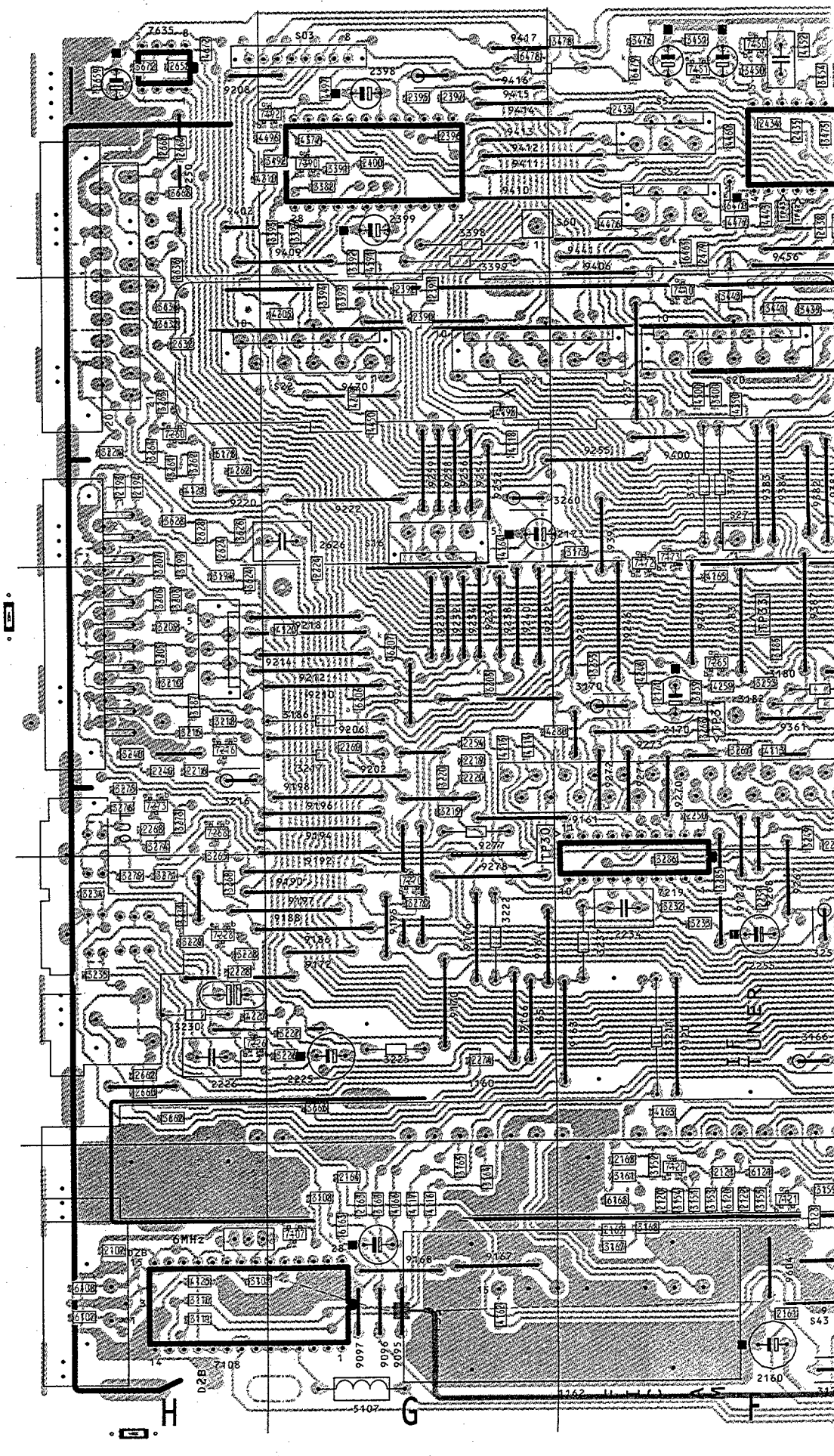
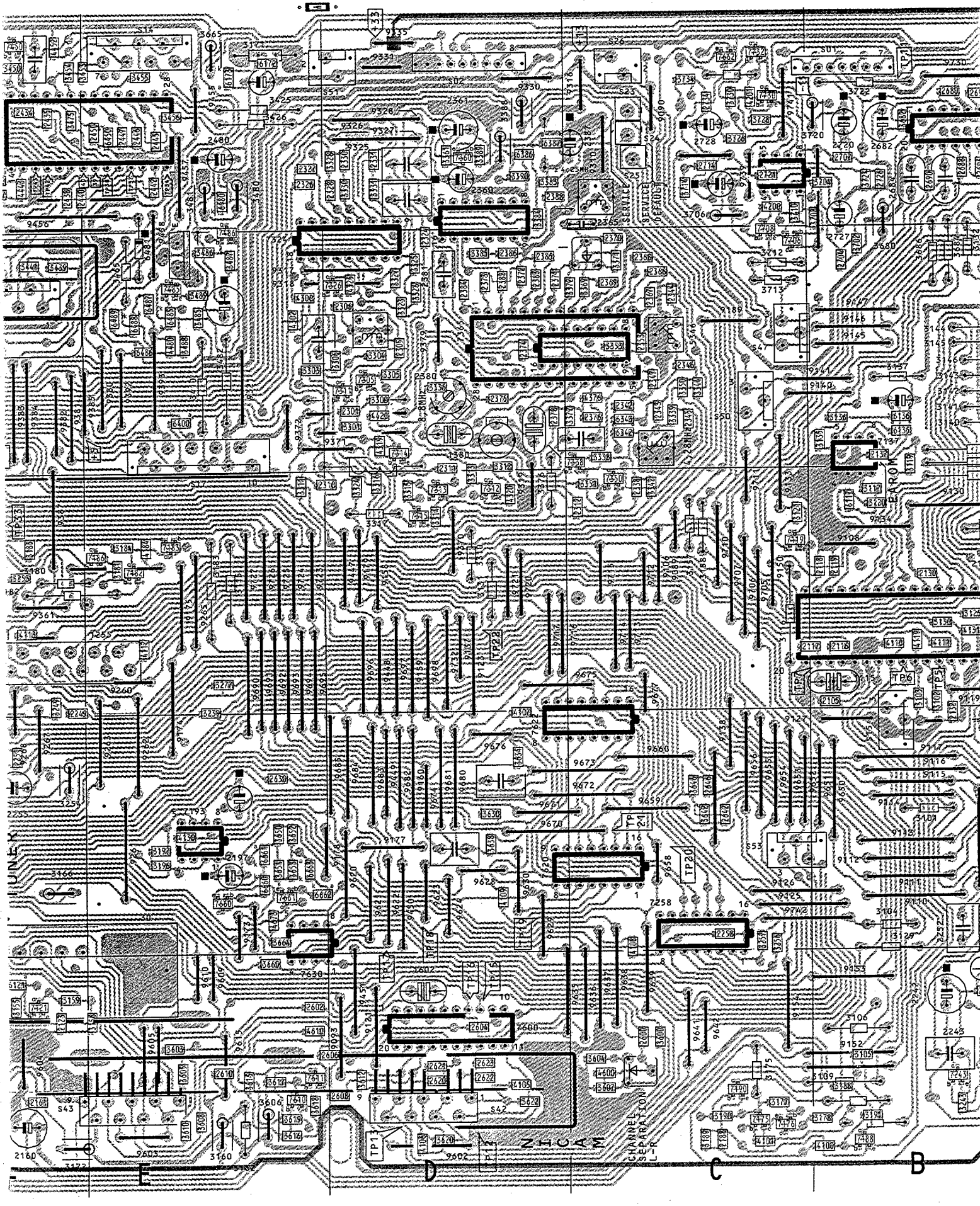
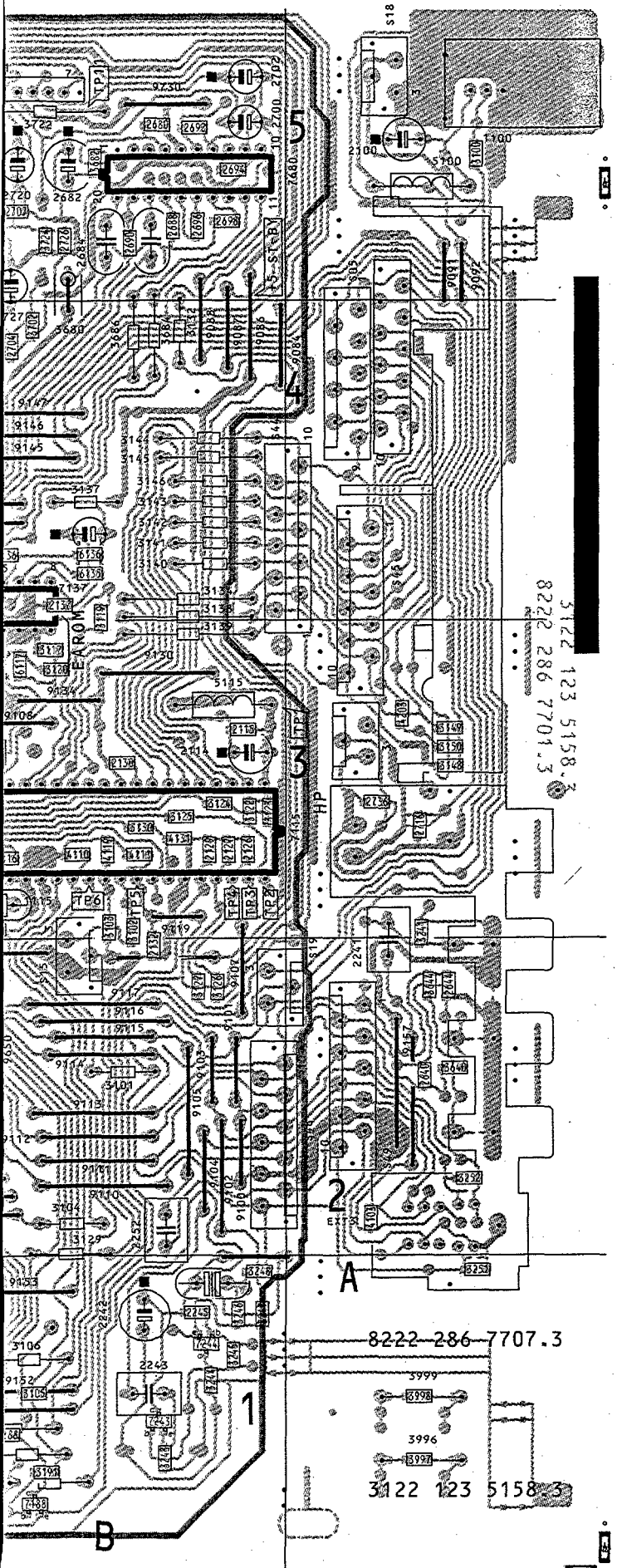
Small signal panel Klein-signal Platine C



Carte à petite signaux





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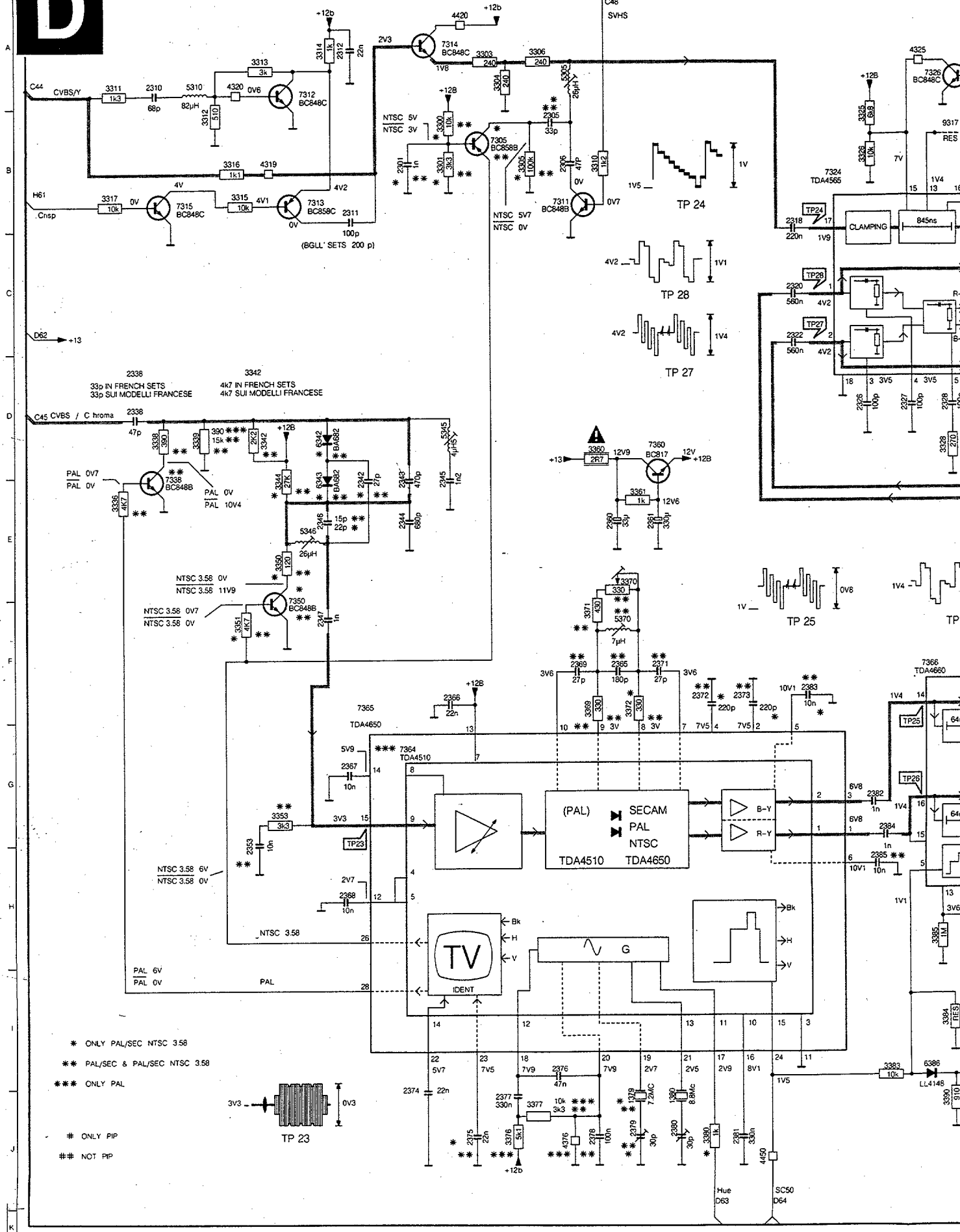
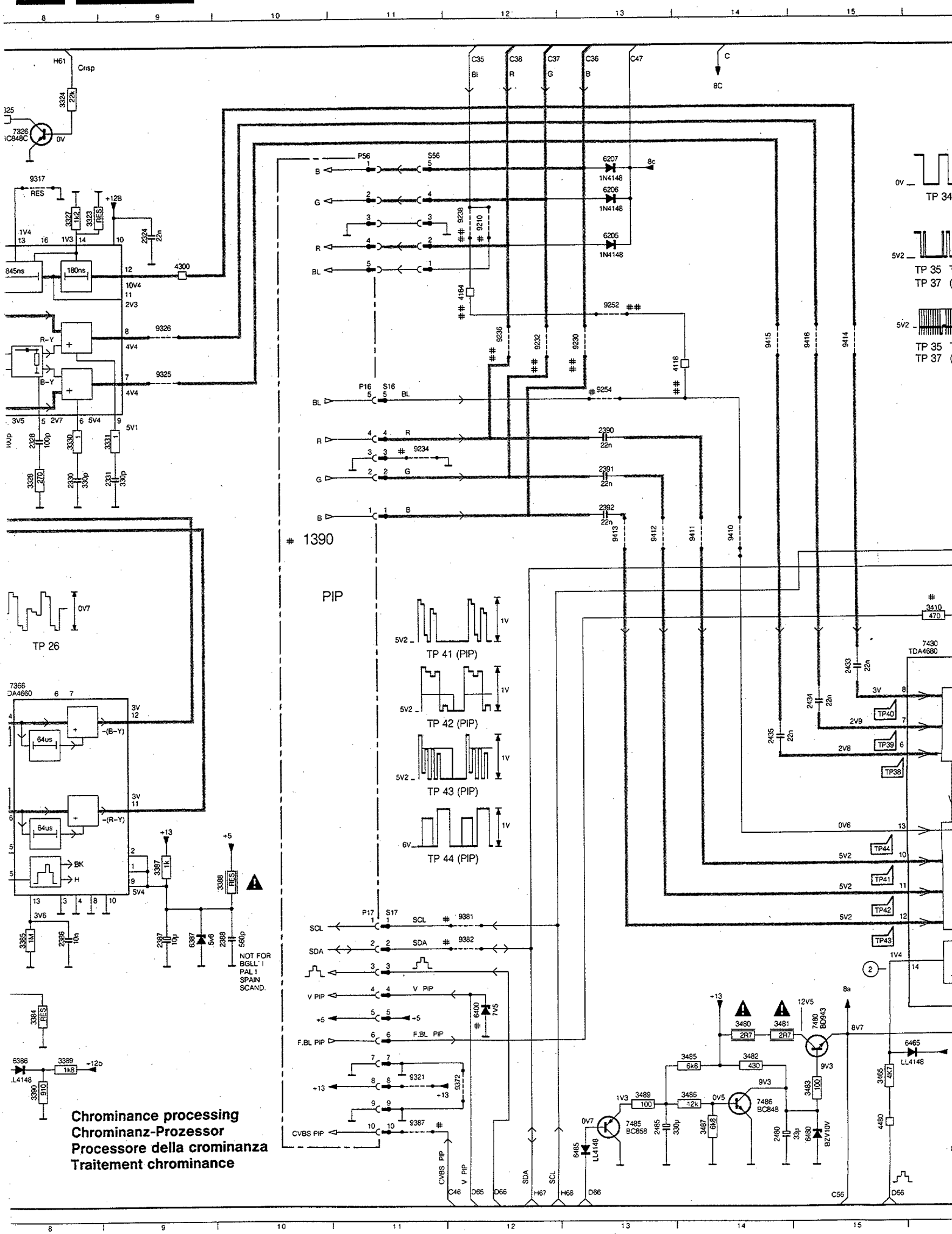
D

DIAGRAM-SCHALTBILD-SCHEMA D





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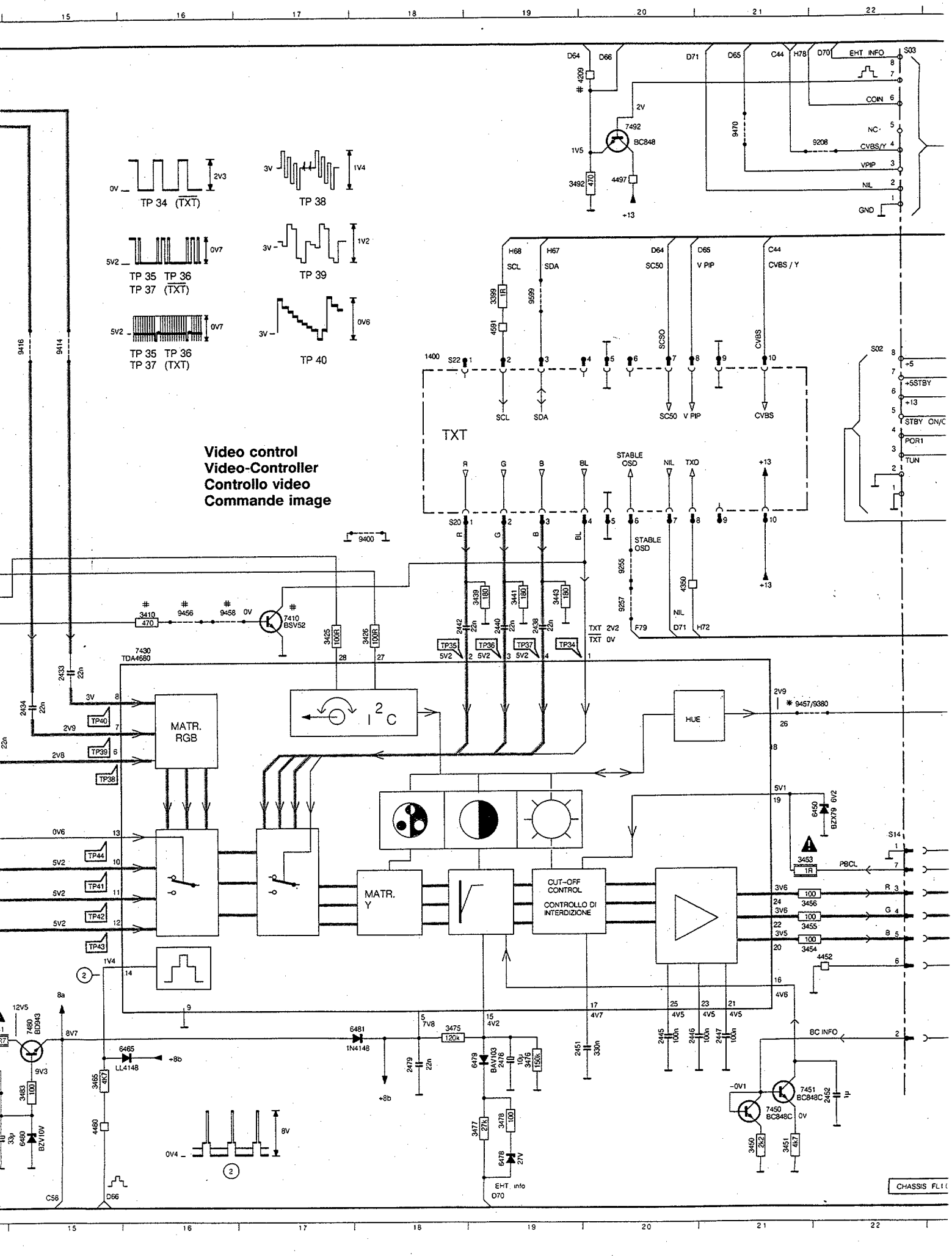
Chrominanz-Prozessor
Processore della crominanza
Traitement chrominance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MATR. Y
HUE
CUT-OFF CONTROL
CONTROLLO DI INTERDIZIONE
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NC
CVBS/Y
VPIP
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STABLE OSD
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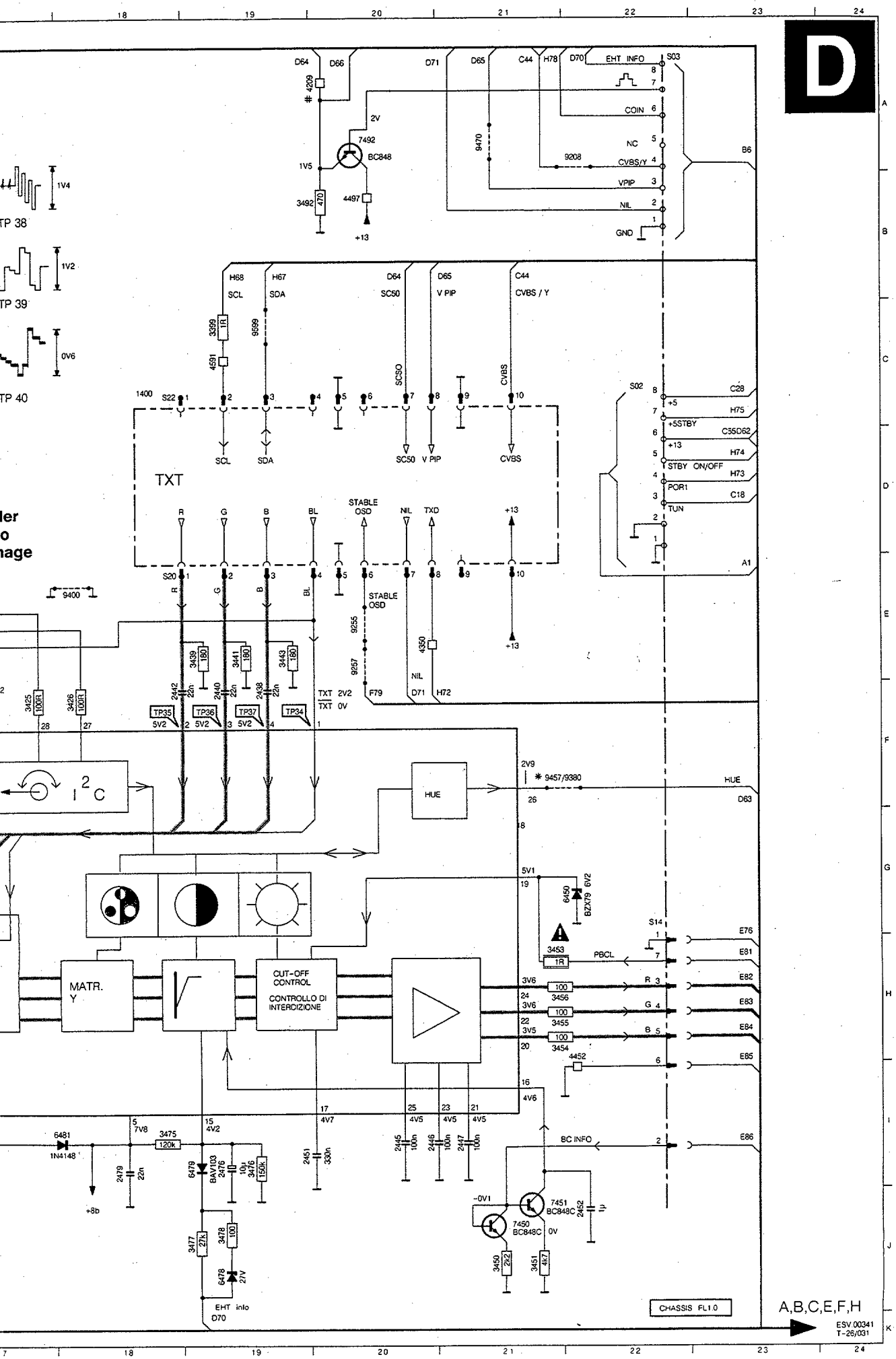

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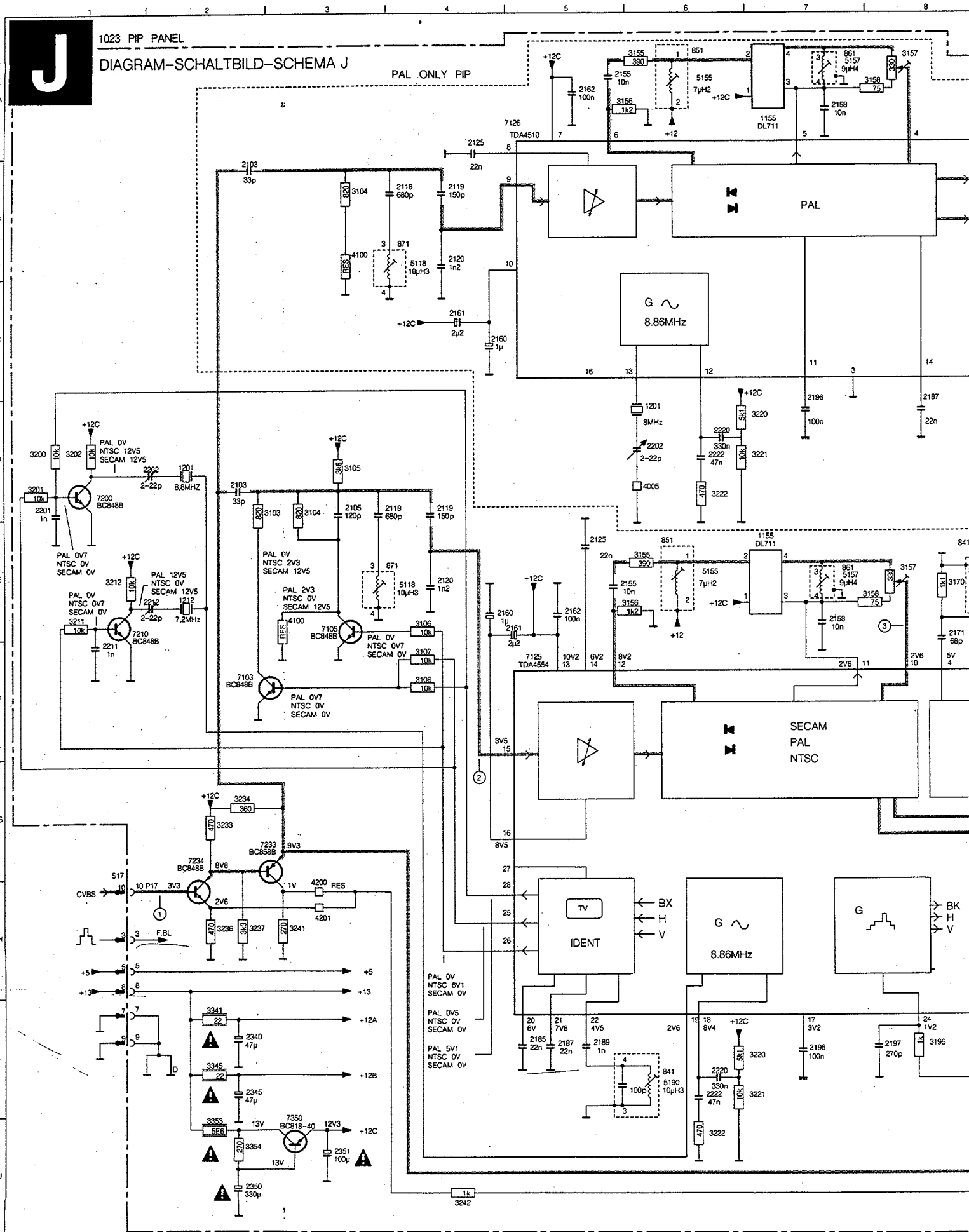
J

1023 PIP PANEL

DIAGRAM–SCHALTBILD–SCHEMA J

PAL ONLY PIP



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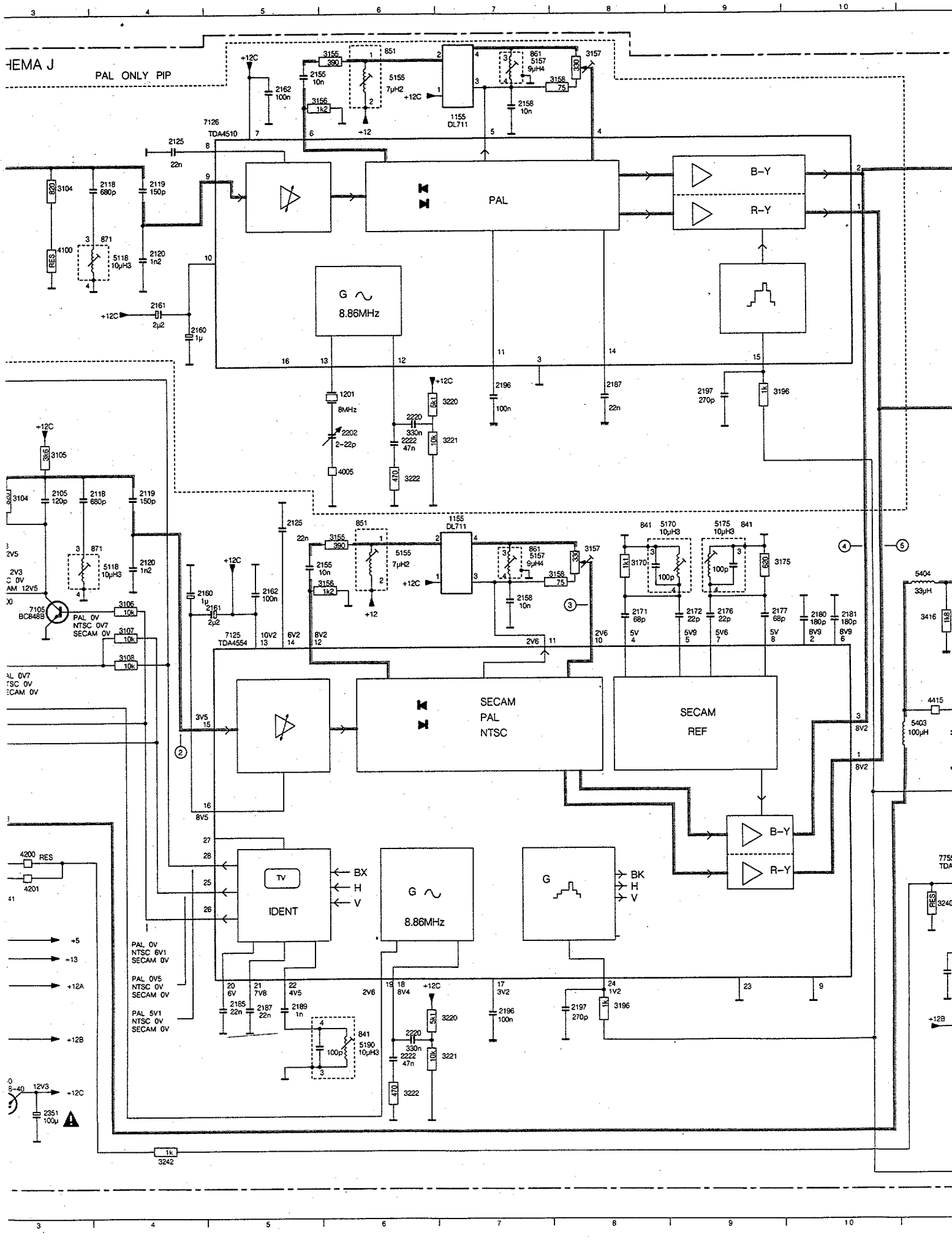

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PIP processing
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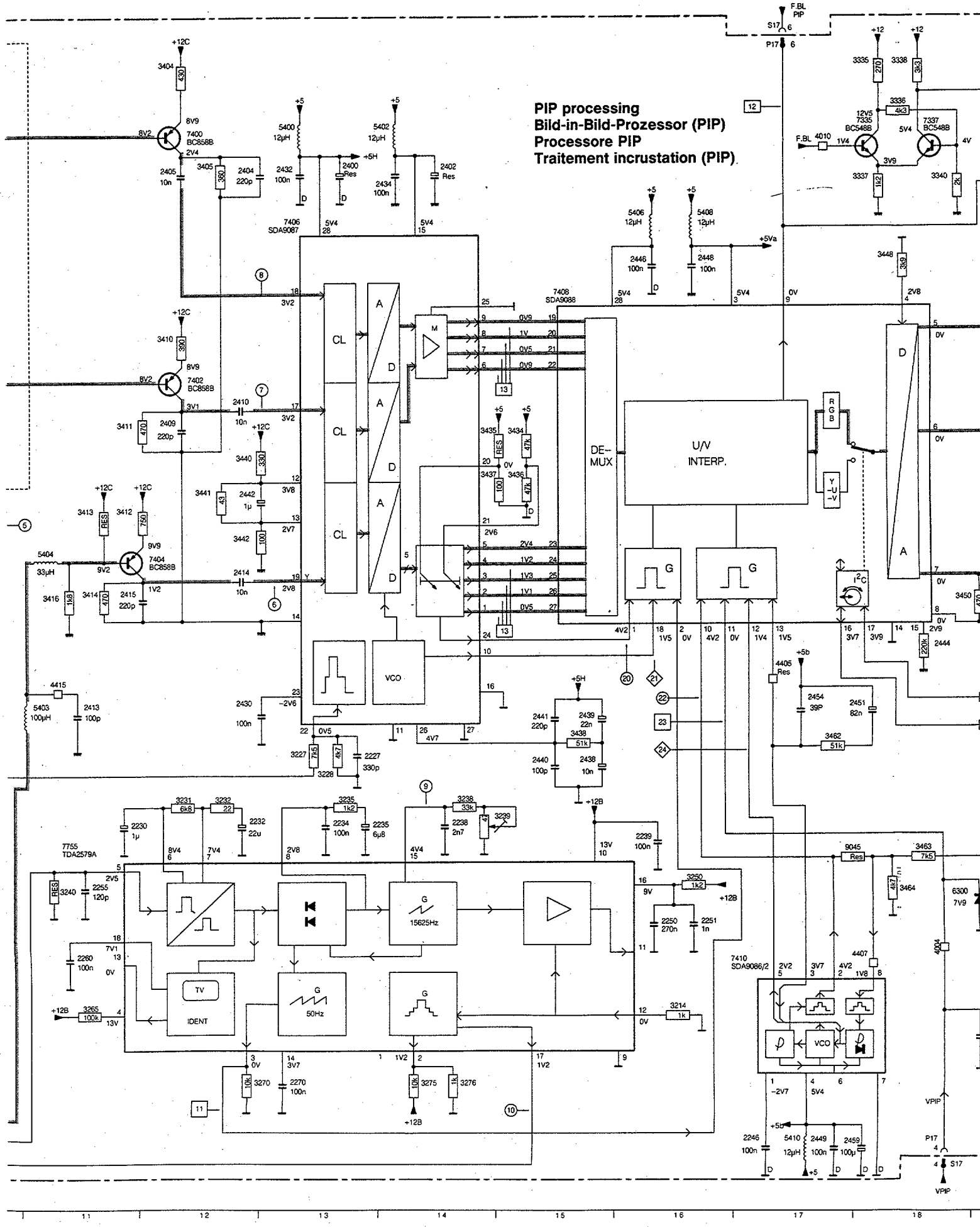
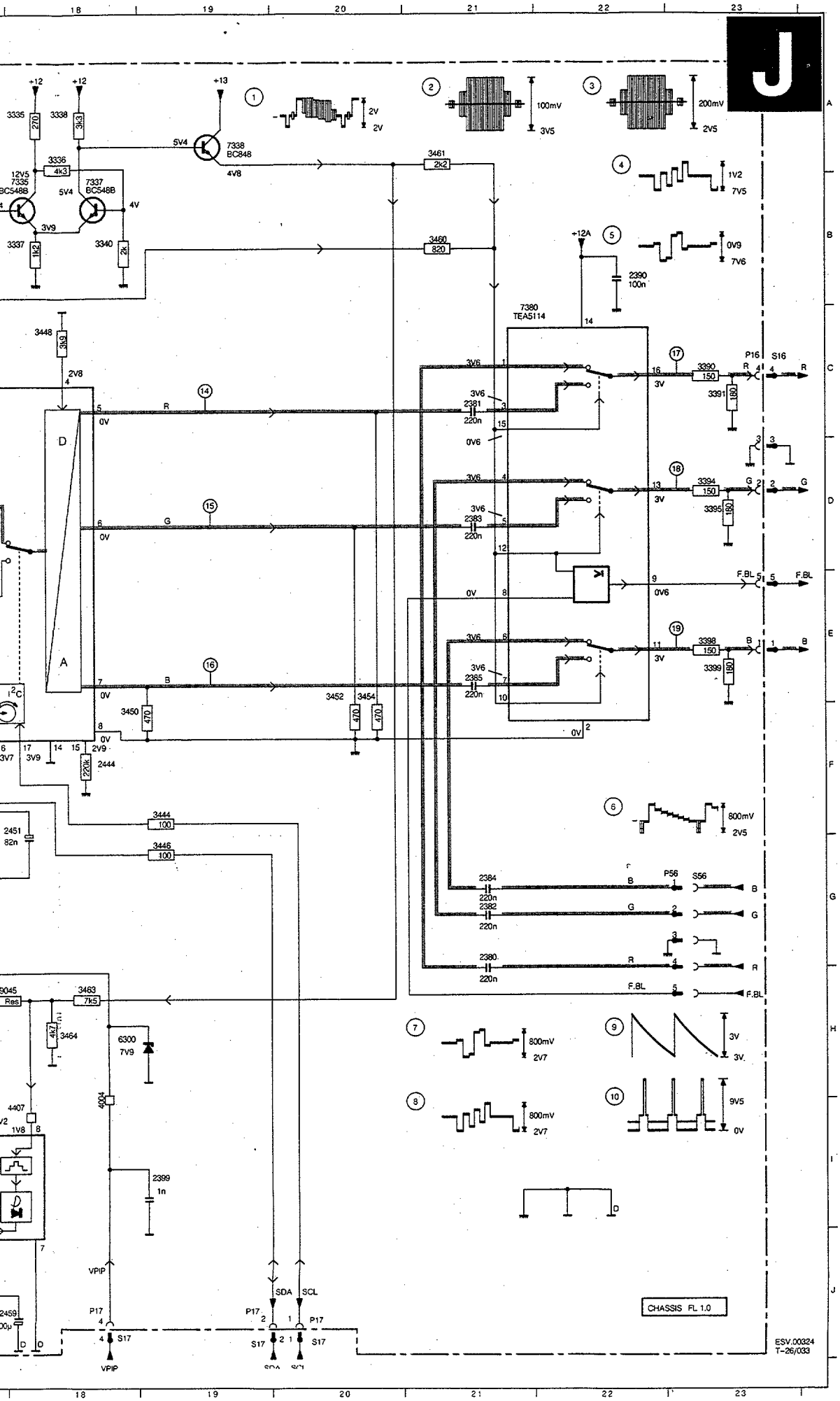
Processore PIP
Traitement incrustation (PIP)





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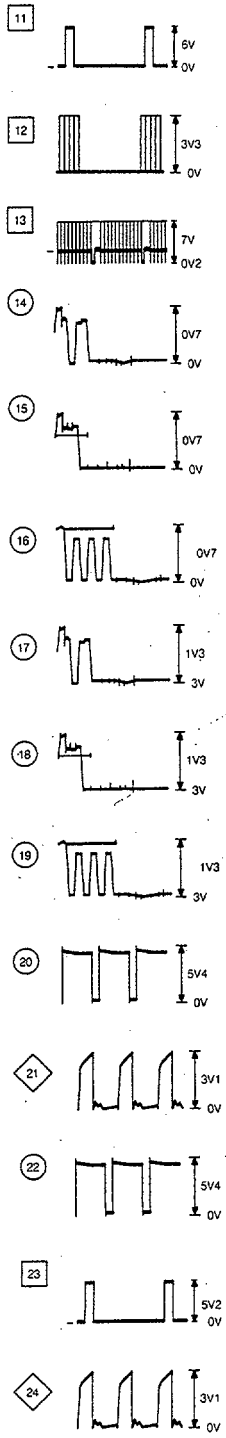

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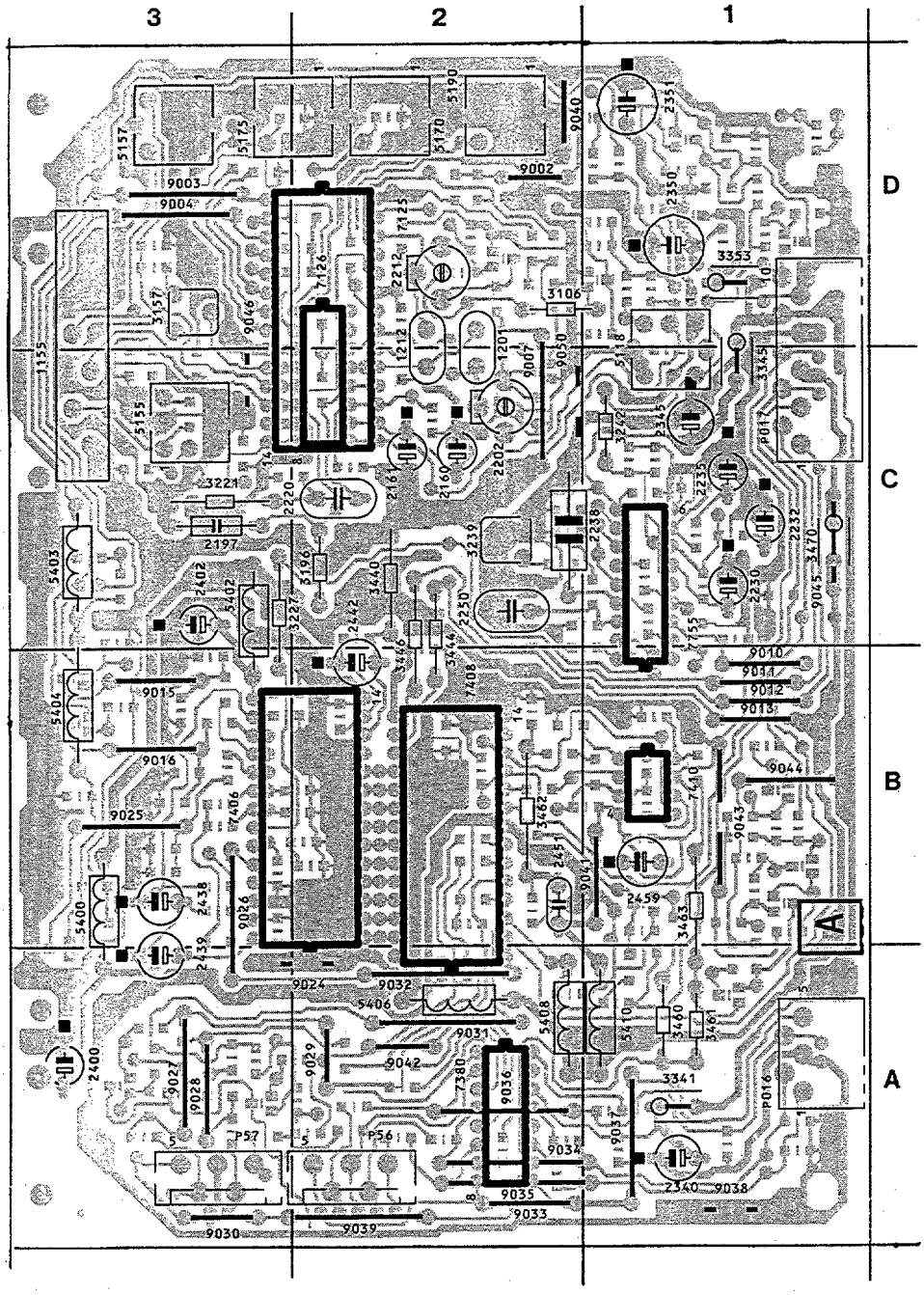

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2211 D2	3106 D2	3390 A1	5157 D3	9040 D2
2212 D2	3107 D2	3391 A1	5170 D2	9041 B1
2220 C2	3108 D2	3394 A2	5175 D2	9042 A2
2222 C2	3155 C3	3395 A1	5190 D2	9043 B1
2227 B2	3156 C3	3398 A2	5400 B3	9044 B1
2230 C1	3157 D3	3399 A1	5402 C3	9045 C1
2232 C1	3158 D3	3404 C3	5403 C3	9046 C3
2234 C1	3170 D2	3405 B3	5404 B3	9050 C2
2235 C1	3175 D2	3410 B3	5406 A2	P016 A1
2238 C2	3195 C2	3411 B3	5408 A2	P017 C1
2239 C1	3196 C2	3412 B3	5410 A1	P56 A2
2250 C2	3200 D2	3413 B3	6300 B2	P57 A3
2251 C1	3201 D2	3414 B3	7103 D1	
2255 C1	3202 D2	3416 B3	7105 D1	
2260 C1	3211 D2	3434 B3	7125 D3	
2270 C2	3212 D2	3435 B3	7126 D2	
2330 B1	3214 C2	3436 B2	7200 C2	
2333 B1	3220 C2	3437 B2	7210 D2	
2340 A1	3221 C3	3438 B3	7233 D1	
2345 C1	3222 D2	3440 C2	7234 D1	
2350 D1	3227 C3	3441 C2	7330 B1	
2351 D1	3228 B2	3442 B2	7333 B1	
2380 A2	3231 C1	3444 C2	7335 B1	
2381 A2	3232 C1	3446 C2	7337 B1	
2382 A2	3233 D1	3448 B2	7338 A1	
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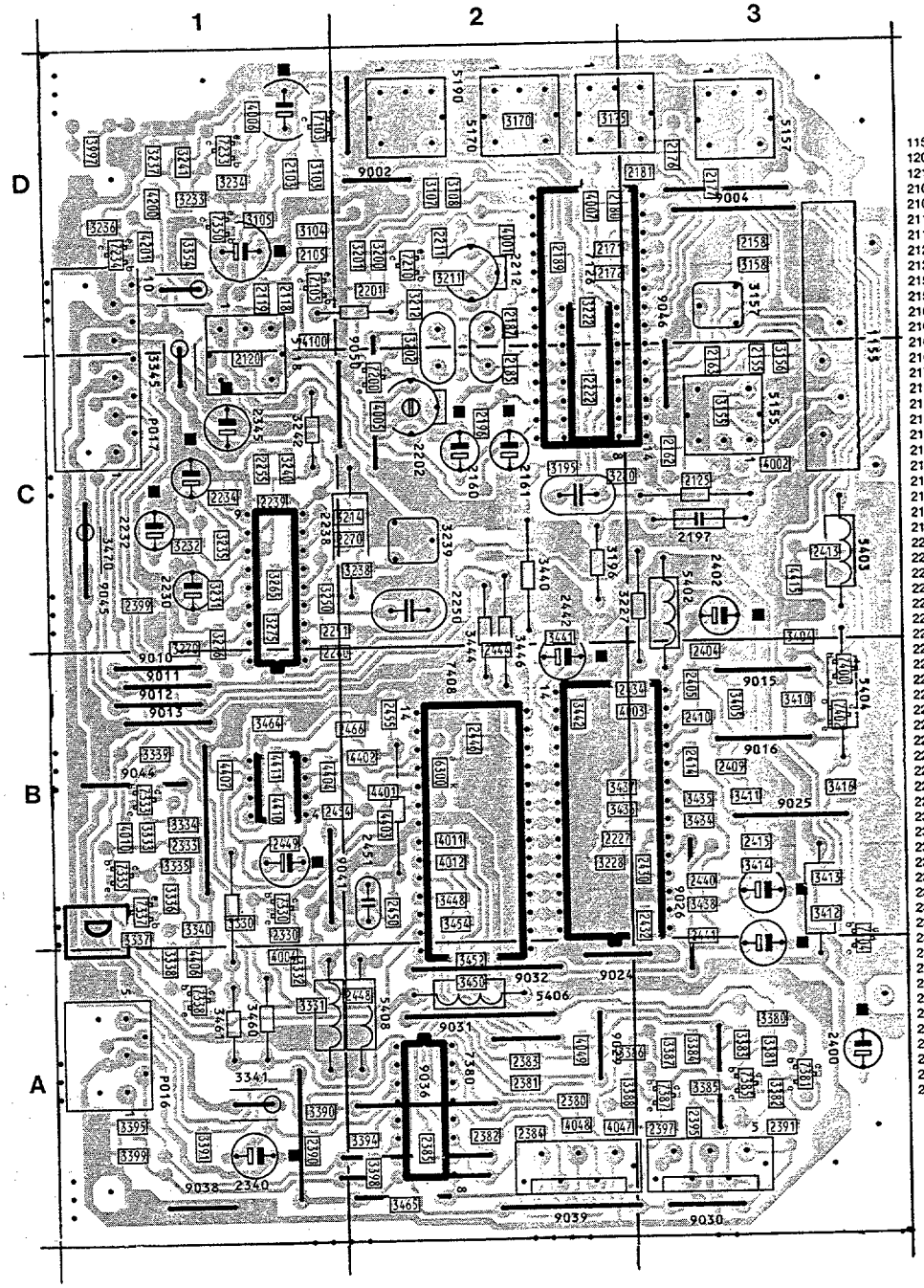

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C3 9002 D2
B2 9003 D3
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B1 9012 B1
B2 9013 B1
B2 9015 B3
A2 9016 B3
A2 9024 A2
A2 9025 B3
D1 9026 B3
D1 9027 A3
D1 9028 A3
B2 9029 A2
B2 9030 A3
B2 9031 A2
B1 9032 A2
A1 9033 A2
B1 9034 A2
B1 9035 A2
B1 9036 A2
C3 9037 A1
D1 9038 A1
C3 9039 A2
D3 9040 D2
D2 9041 B1
D2 9042 A2
D2 9043 B1
B3 9044 B1
C3 9045 C1
C3 9046 C3
B3 9050 C2
A2 P016 A1
A2 P017 C1
A1 P56 A2
B2 P57 A3
D1
D1
D3
D2
C2
D2
D1
D1
B1
B1
B1
A1
D1
A2
A3
A3
B3
B3
B2
A2

1155 C3
1201 D2
1212 D2
2103 D1
2105 D1
2118 D1
2119 D1
2120 D1
2125 C3
2155 C3
2158 D3
2160 C2
2161 C2
2162 C3
2163 C3
2171 D2
2172 D2
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2177 D3
2180 D2
2181 D3
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2187 D2
2189 D2
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2222 C2
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2239 C1
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2381 A2
2382 A2
2383 A2
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2402 C3

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3465 A2
3470 C1

3997 D1
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4002 C3
4003 B2
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5410 A1
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7200 C2
7210 D2
7233 D1
7234 D1
7330 B1
7333 B1
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7338 A1
7350 D1
7380 A2
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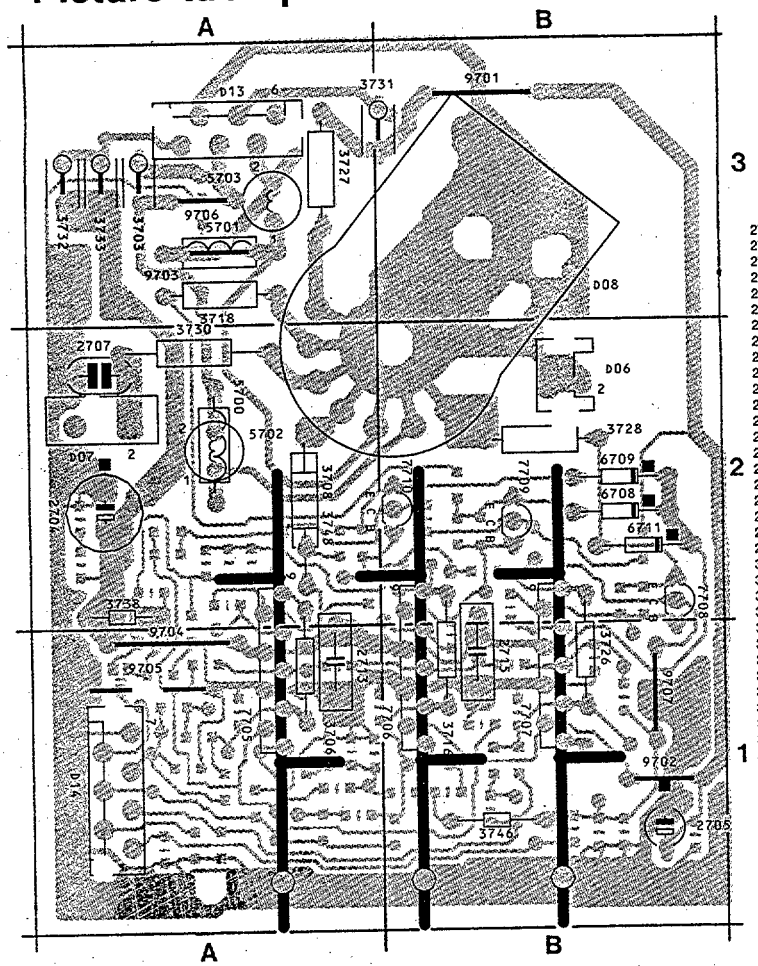
7406 B2
7408 A2

Picture tube panel Bildröhre Platte



2700 A1 4709 B1
2701 A1 4710 B1
2702 B1 4714 A2
2703 A1 4723 B2
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2705 B1 4743 A2
2706 B1 4760 B2
2707 A2 5700 A2
2708 A2 5701 A3
2709 A1 5702 A2
2710 A1 5703 A3
2711 A1 6700 A1
2713 A1 6701 B2
2715 B1 6702 B2
2720 A1 6703 A2
2721 B1 6704 B2
2730 A1 6705 B2
2731 B2 6706 A2
2741 B1 6707 A2
2751 A2 6708 B2
2760 A3 6709 B2
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3701 B1 6711 B2
3702 B1 6712 B2
3703 A3 6713 A2
3704 A1 7704 A1
3705 A1 7705 A1
3706 A1 7706 B1
3708 A2 7707 B1
3709 A1 7708 B2
3710 A1 7709 B2
3714 A1 7710 B2
3715 B1 9701 B3
3716 B1 9702 B1
3718 A3 9703 A3
3719 B1 9704 A1
3720 B1 9705 A1
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3725 B1 9707 B1
3726 B1 D06 B2
3727 A3 D07 A2
3728 B2 D08 B2
3730 A2 D13 A3
3731 A3 D14 A1
3732 A3
3733 A3
3734 A2
3735 A2
3736 A2
3737 A1
3738 A2
3740 A2
3741 A2
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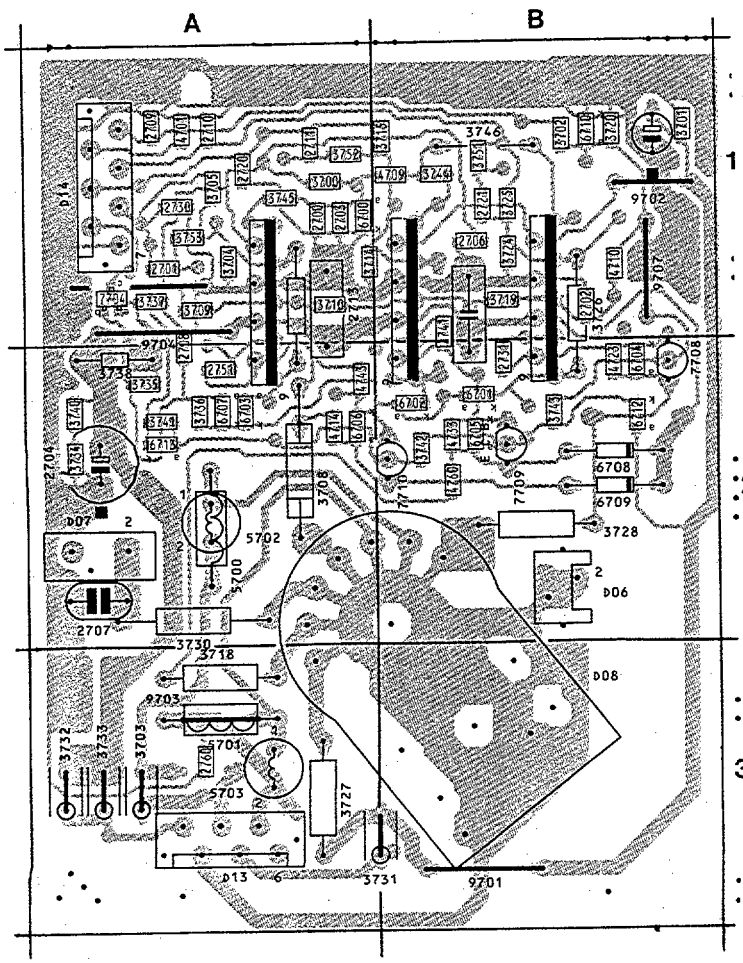
4701 A1



2700-F1 2707-F8 2720-D1 3700-F2 3708-D6 3719
2701-E2 2708-F3 2721-A2 3701-E6 3709-F5 3720
2702-B4 2709-A4 2730-E1 3702-A4 3710-D4 3724
2703-F2 2710-B1 2731-B3 3703-E7 3714-D2 3725
2704-B6 2711-C2 2741-D3 3704-E2 3715-C2 3726
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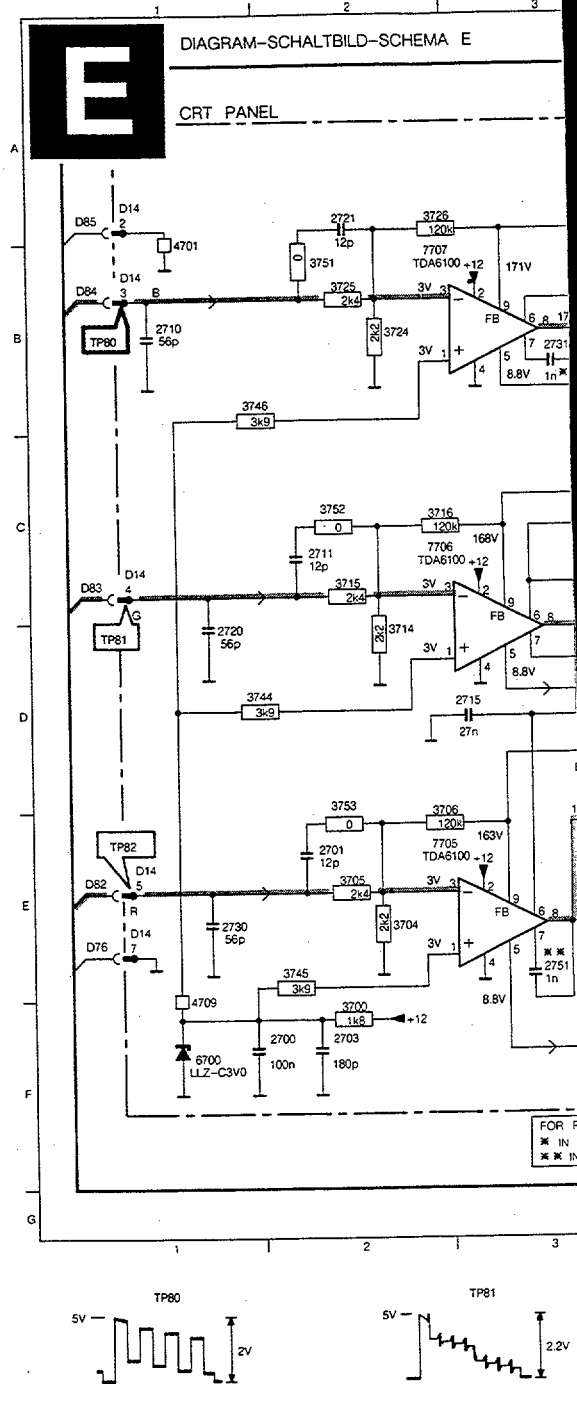


Panneau tube cathodique

700-F2	3708-D6	3719-D4	3730-F8	3737-F5	3745-E2	4709-F1	5700-E6	6703-D3	6710-A4	7707-B3	D07 -F8	D14 -B1
701-E6	3709-F5	3720-B4	3731-E7	3738-E4	3746-B1	4710-B4	5701-E7	6704-B5	6711-B5	7708-B5	D08 -C7	D14 -F4
702-A4	3710-D4	3724-B2	3732-A6	3740-B6	3748-D5	4714-E6	5702-E6	6705-D5	6712-E6	7709-D5	D08 -D8	
703-E7	3714-D2	3725-B2	3733-B6	3741-F5	3751-B2	4723-B5	5703-E7	6706-E5	6713-E6	7710-E5	D13 -B7	
704-E2	3715-C2	3726-A2	3734-B6	3742-E5	3752-C2	4733-D5	6700-F1	6707-E3	7704-E4	9703-E7	D13 -E8	
705-E2	3716-C2	3727-E7	3735-E4	3743-C5	3753-E2	4743-E4	6701-D4	6708-C5	7705-E3	9707-A5	D13 -F7	
706-E2	3718-D6	3728-C6	3736-E4	3744-D1	4701-B1	4760-D5	6702-D3	6709-D6	7706-D3	D06 -C7	D14 -A4	

TBILD-SCHEMA E

TABEL (#)

	21"	25"-28"	33"
5700	27µH	12µH	15µH
5701	27µH	-	-
5702	-	-	RES
5703	-	-	RES
9703	-	X	x
9706	-	-	RES

FOR POS 7705 7706 7707
* IN CASE OF TDA6100
** IN CASE OF TDA6101

CHASSIS FL1.0

B,D

ESV.00322
T-26/039

TP81 5V 2.2V

TP82 5V 2.5V

TP83 200V 95V

TP84 200V 105V

TP85 200V 110V

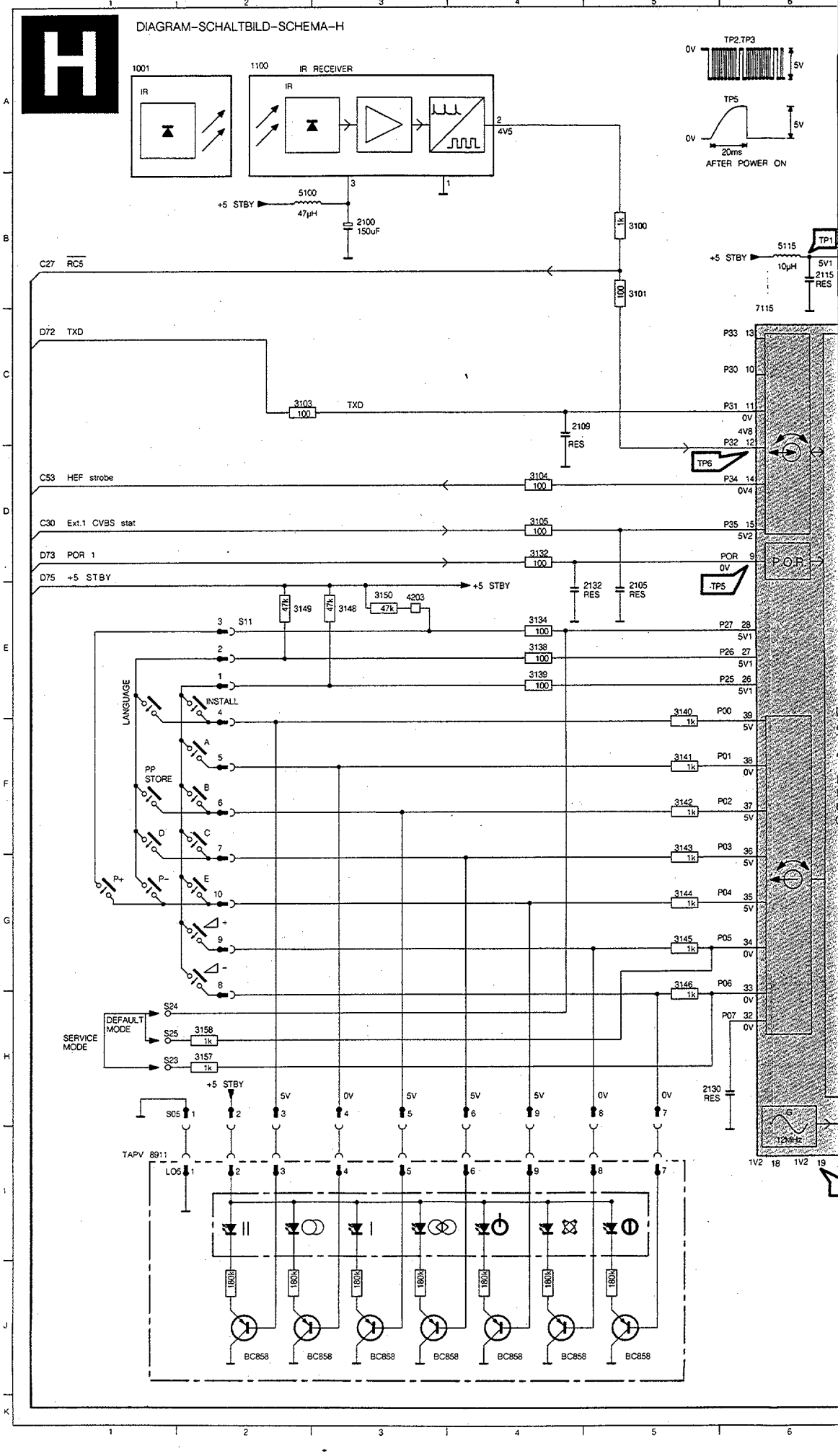
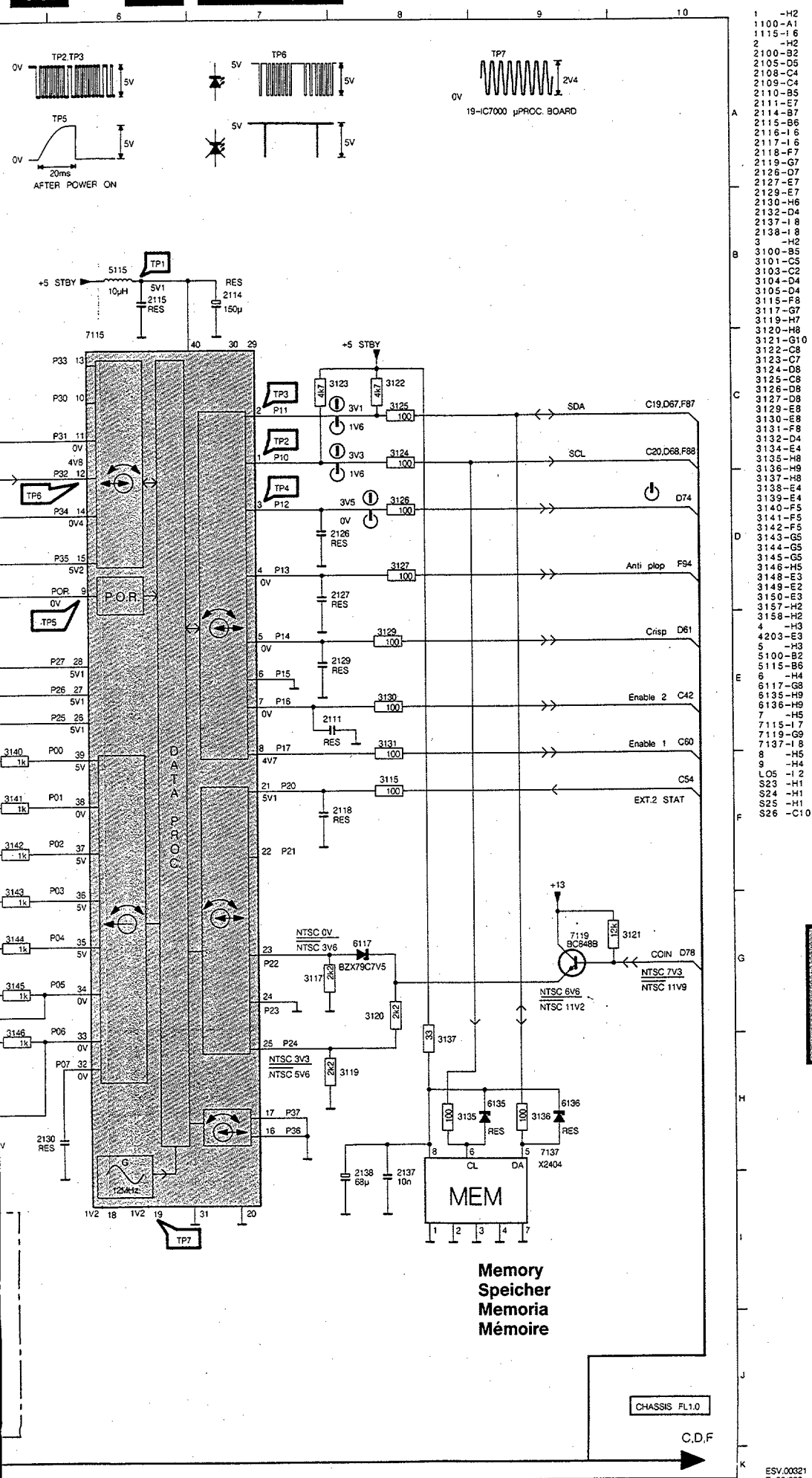


DIAGRAM-SCHALTBILD-SCHEMA-H
1001
IR
1100
IR RECEIVER
TP2,TP3
TP5
20ms
AFTER POWER ON
+5 STBY
5100
47µH
2100
150uF
3100
3101
C27 RC5
D72 TXD
3103
100
2109
RES
C53 HEF strobe
3104
C30 Ext.1 CVBS stat
3105
D73 POR 1
3132
D75 +5 STBY
5115
10µH
2115
7115
TP1
TP6
TP5
2132
2105
3149
3148
3150
4203
47k
S11
3134
3138
3139
LANGUAGE
INSTALL
PP
STORE
P+
P-
3140
3141
3142
3143
3144
3145
3146
S24
S25
S23
3158
3157
DEFAULT MODE
SERVICE MODE
S05
LO5
TAPV 8911
180Ω
BC858
2130
12MHz
P33
P30
P31
P32
P34
P35
POR
P27
P26
P25
P00
P01
P02
P03
P04
P05
P06
P07
1V2

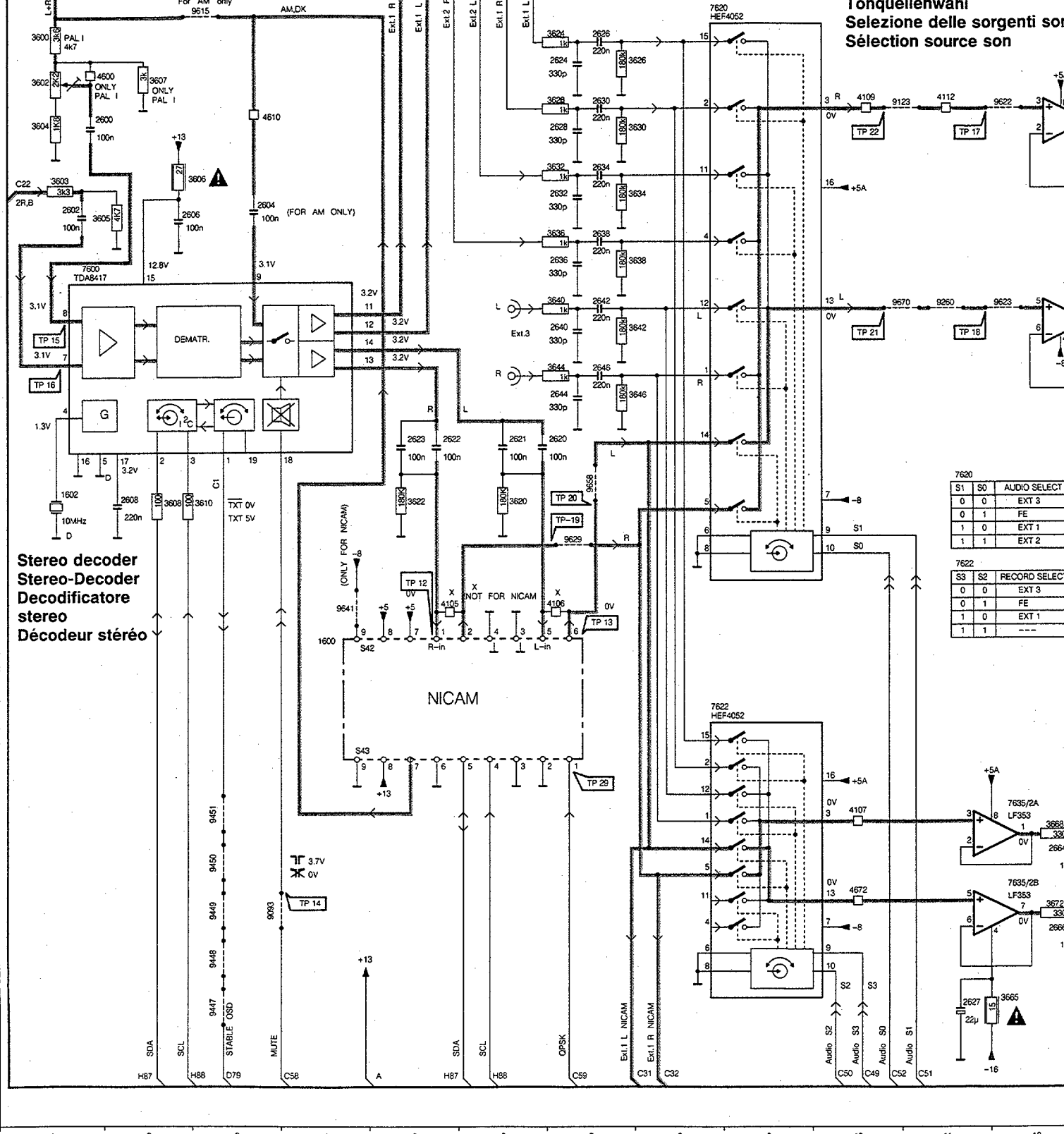


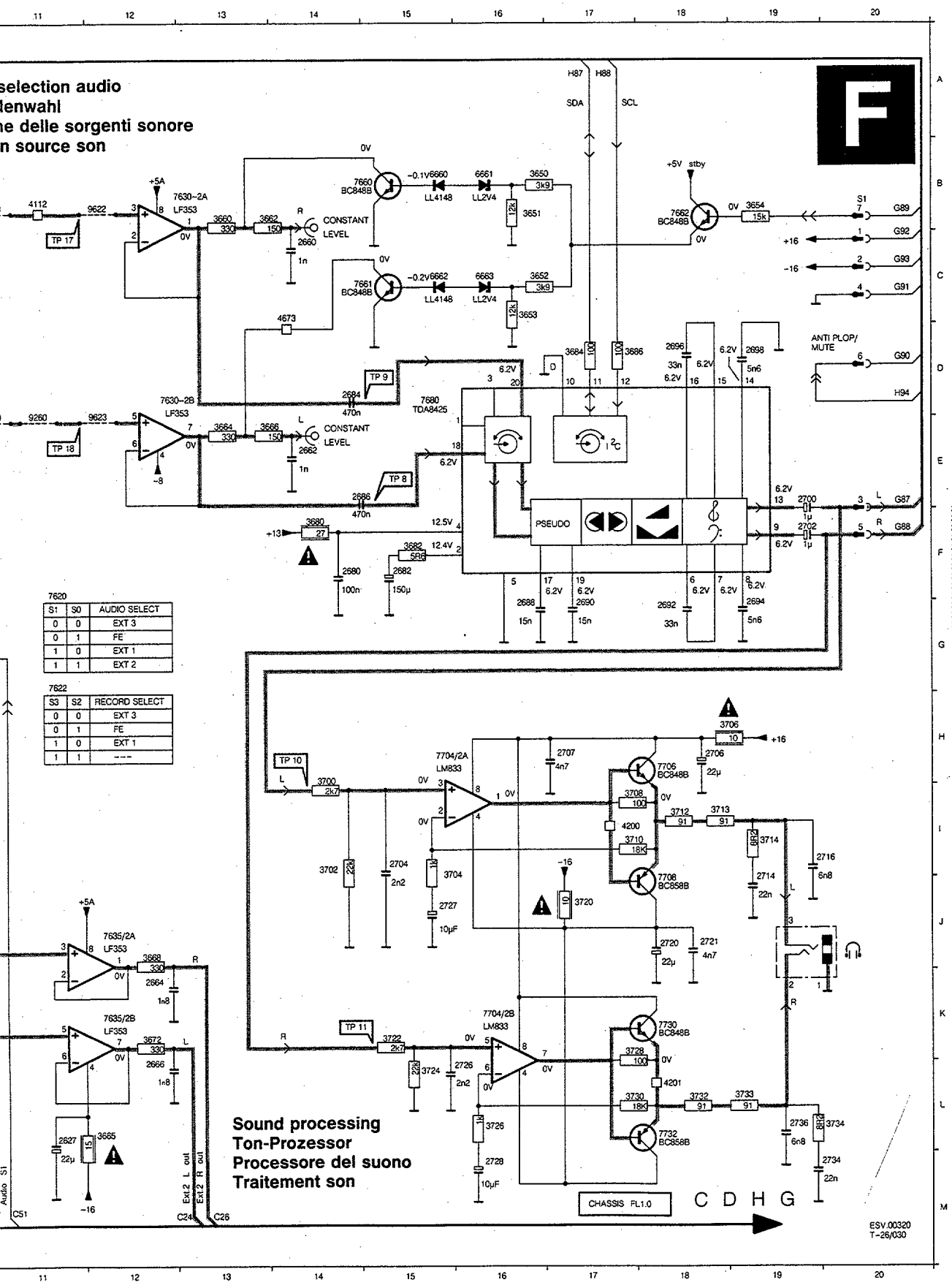
1 -H2
1100-A1
1115-I 6
2 -H2
2100-B2
2105-D5
2108-C4
2109-C4
2110-B5
2111-E7
2114-B7
2115-B6
2116-I 6
2117-I 6
2118-F7
2119-G7
2126-D7
2127-E7
2129-E7
2130-H6
2132-D4
2137-I 8
2138-I 8
3 -H2
3100-B5
3101-C5
3103-C2
3104-D4
3105-D4
3115-F8
3117-G7
3119-H7
3120-H8
3121-G10
3122-C8
3123-C7
3124-D8
3125-C8
3126-D8
3127-D8
3129-E8
3130-E8
3131-F8
3132-D4
3134-E4
3135-H8
3136-H9
3137-H8
3138-E4
3139-E4
3140-F5
3141-F5
3142-F5
3143-G5
3144-G5
3145-G5
3146-H5
3148-E3
3149-E2
3150-E3
3157-H2
3158-H2
4 -H3
4203-E3
5 -H3
5100-B2
5115-B6
6 -H4
6117-G8
6135-H9
6136-H9
7 -H5
7115-I 7
7119-G9
7137-I 8
8 -H5
9 -H4
LO5 -I 2
S23 -H1
S24 -H1
S25 -H1
S26 -C10

Control Panel

4822 212 23592

DIAGRAM-SCHALTBILD-SCHEMA F





A	M5	3662 B14
L	E14	3664 E13
L	E6	3665 L12
R	B14	3666 E14
R	E6	3668 J12
+5	H5	3672 K12
+5	H5	3680 F14
-8	E12	3682 F15
-8	G10	3684 D17
-8	G4	3686 D17
-8	L10	3700 H14
+13	C2	3702 I14
+13	F14	3704 J15
+13	J5	3706 H19
+13	L4	3708 I17
+16	H19	3710 I17
+5A	B12	3712 I18
+5A	C10	3713 I18
+5A	J10	3714 I19
+5A	J12	3720 J17
-16	I17	3722 K15
-16	M11	3724 L15
C21	A1	3726 L16
C22	C1	3728 K17
C23	A6	3730 L17
C24	M13	3732 L18
C25	A5	3733 L19
C26	M13	3734 L20
C31	M8	4105 H5
C32	M8	4106 H7
C33	A5	4107 J10
C34	A5	4109 B10
C39	A6	4112 B11
C40	A6	4200 I17
C49	M10	4201 L18
C50	M10	4600 B2
C51	M11	4610 B3
C52	M10	4672 K10
C58	M4	4673 C14
C59	M7	6660 B15
D79	M3	6661 B16
H87	A17	6662 C15
H87	M2	6663 C16
H87	M5	7600 D1
H88	A17	7620 A8
H88	M2	7622 I8
H88	M6	7660 B15
S42	H4	7661 C15
S43	J4	7662 B18
1600	H4	7680 D15
1602	G1	7706 H18
2600	B2	7708 J18
2602	C1	7730 K18
2604	C3	7732 L18
2606	D2	9093 K3
2608	G2	9123 B10
2620	F7	9260 E11
2621	F6	9447 L3
2622	F5	9448 L3
2623	F5	9449 K3
2624	B7	9450 K3
2626	A7	9451 J3
2627	L11	9615 A3
2628	C7	9622 B12
2630	B7	9623 E12
2632	C7	9629 G7
2634	C7	9641 H4
2636	D7	9658 G7
2638	D7	9670 E10
2640	E7	+5V s B18
2642	D7	7630/ D12
2644	F7	76302 B12
2646	E7	7635/ J12
2660	C14	7635/ K12
2662	E14	7704/ H15
2664	K12	7704/ K16
2666	L12	
2680	F14	
2682	F15	
2684	D14	
2686	E15	
2688	G16	
2690	G17	
2692	G18	
2694	G19	
2696	D18	
2698	D19	
2700	E19	
2702	F19	
2704	I15	
2706	H18	
2707	H17	
2714	J19	
2716	I20	
2720	J18	
2721	J18	
2726	L16	
2727	J15	
2728	M16	
2734	M20	
2736	L19	
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3602	B1	
3603	C1	
3604	B1	
3605	D1	
3606	C3	
3607	B2	
3608	G2	
3610	G3	
3620	G6	
3622	G5	
3624	A7	
3626	B8	
3628	B7	
3630	C8	
3632	C7	
3634	C8	
3636	D7	
3638	D8	
3640	D7	
3642	E8	
3644	E7	
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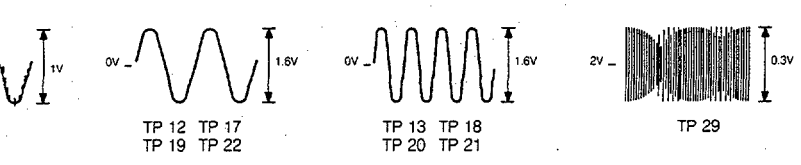
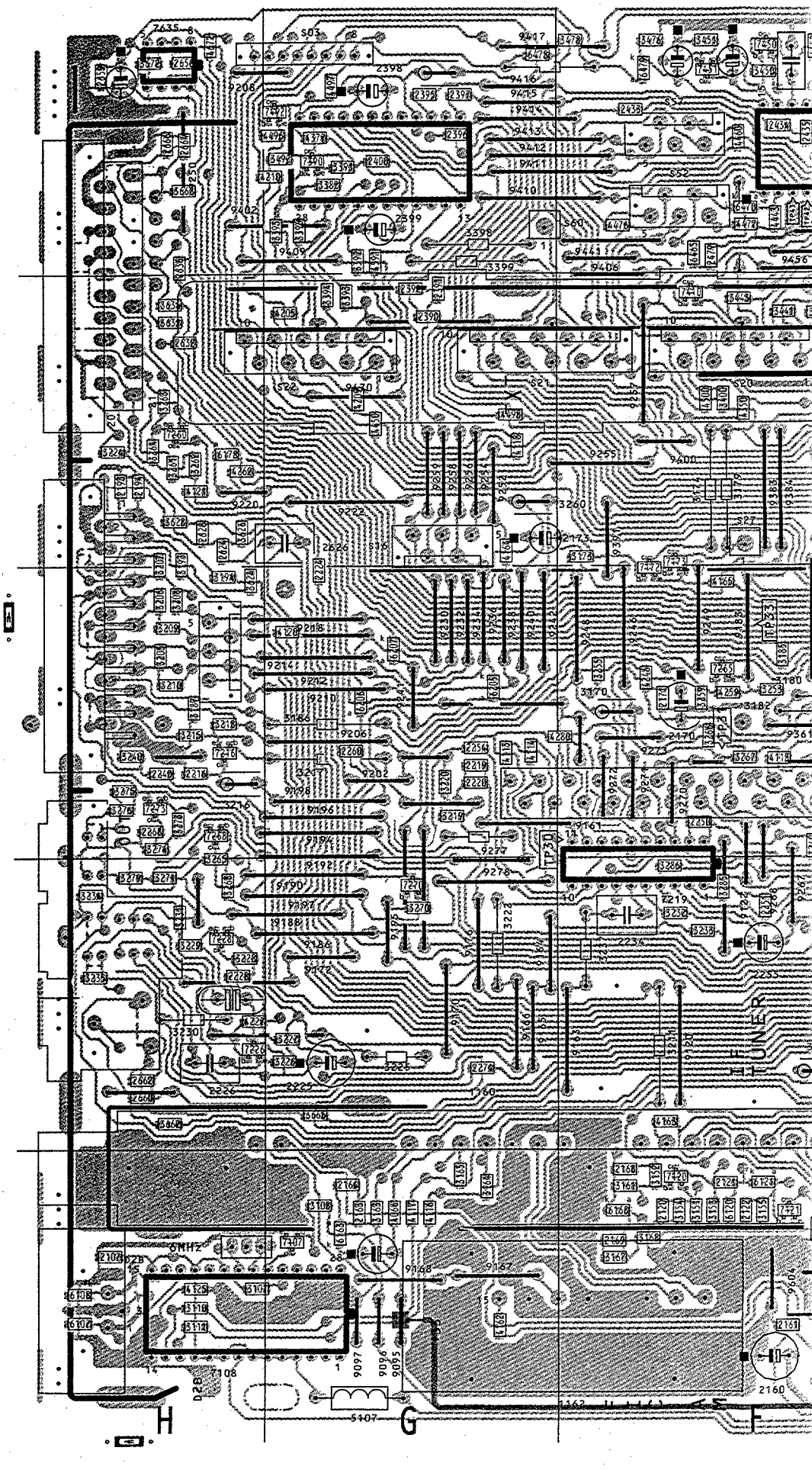
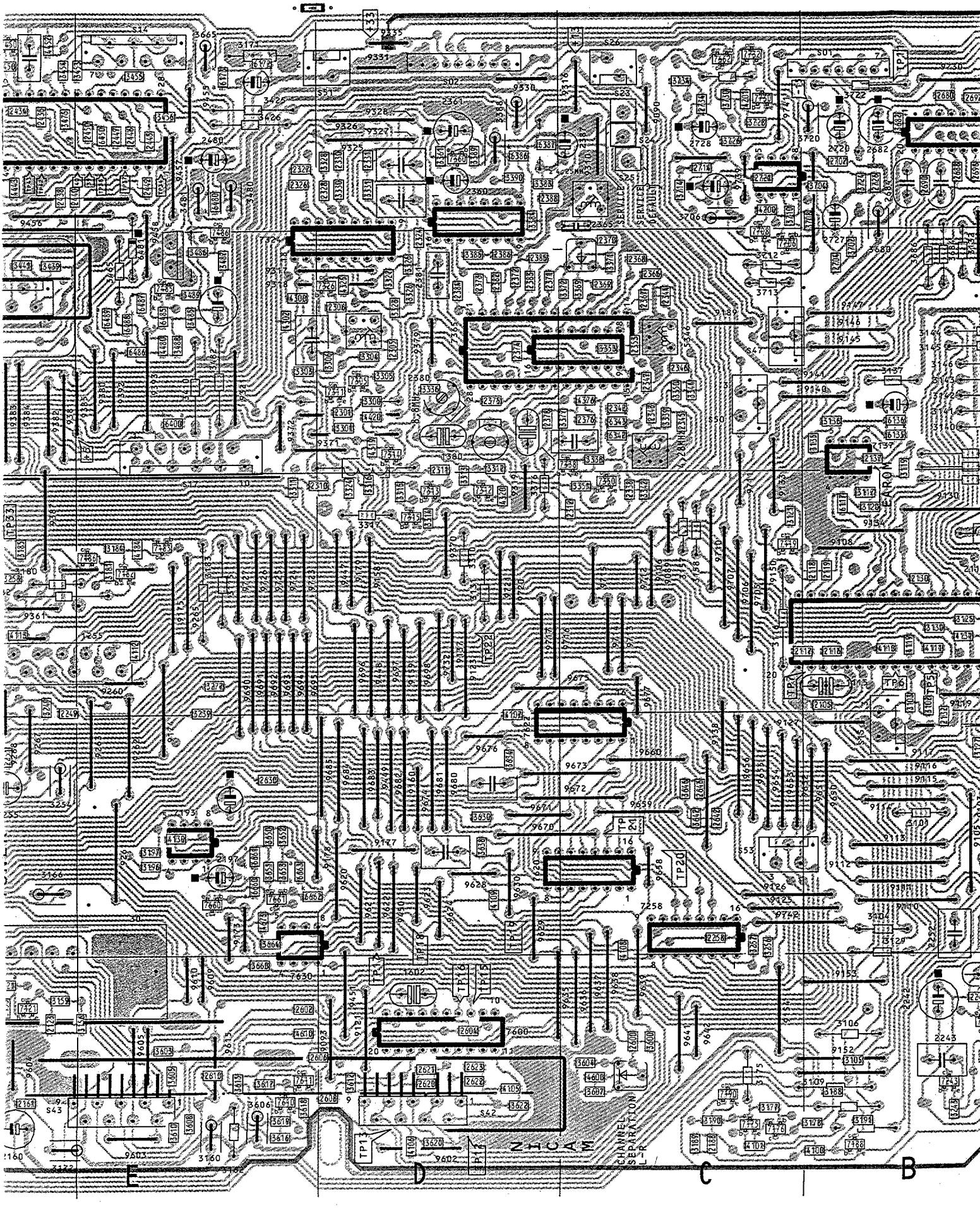


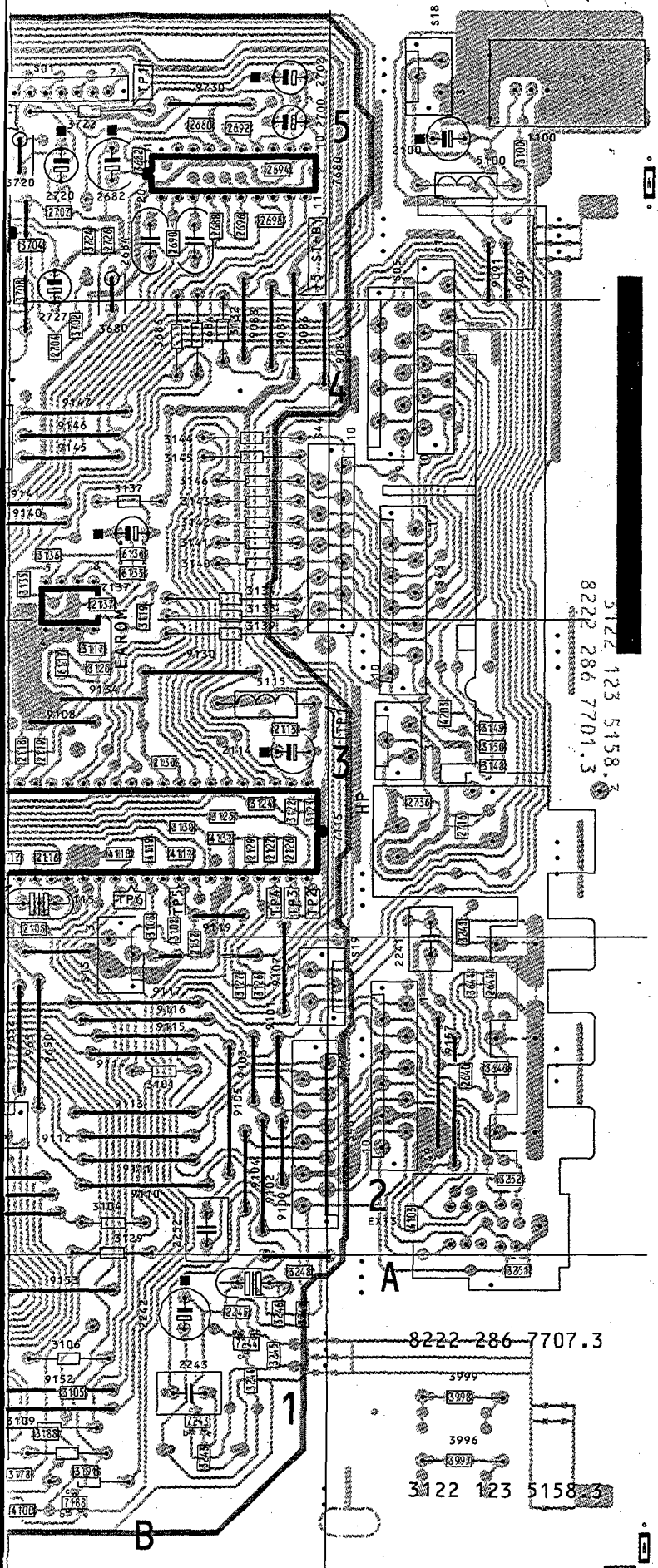
Small signal panel

Klein-signal Platine



Carte à petite signaux





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2330 D5	3115 E3	3262 H4	3640 A2	6178 H4	9119 B3	9361 F3	D2B H1
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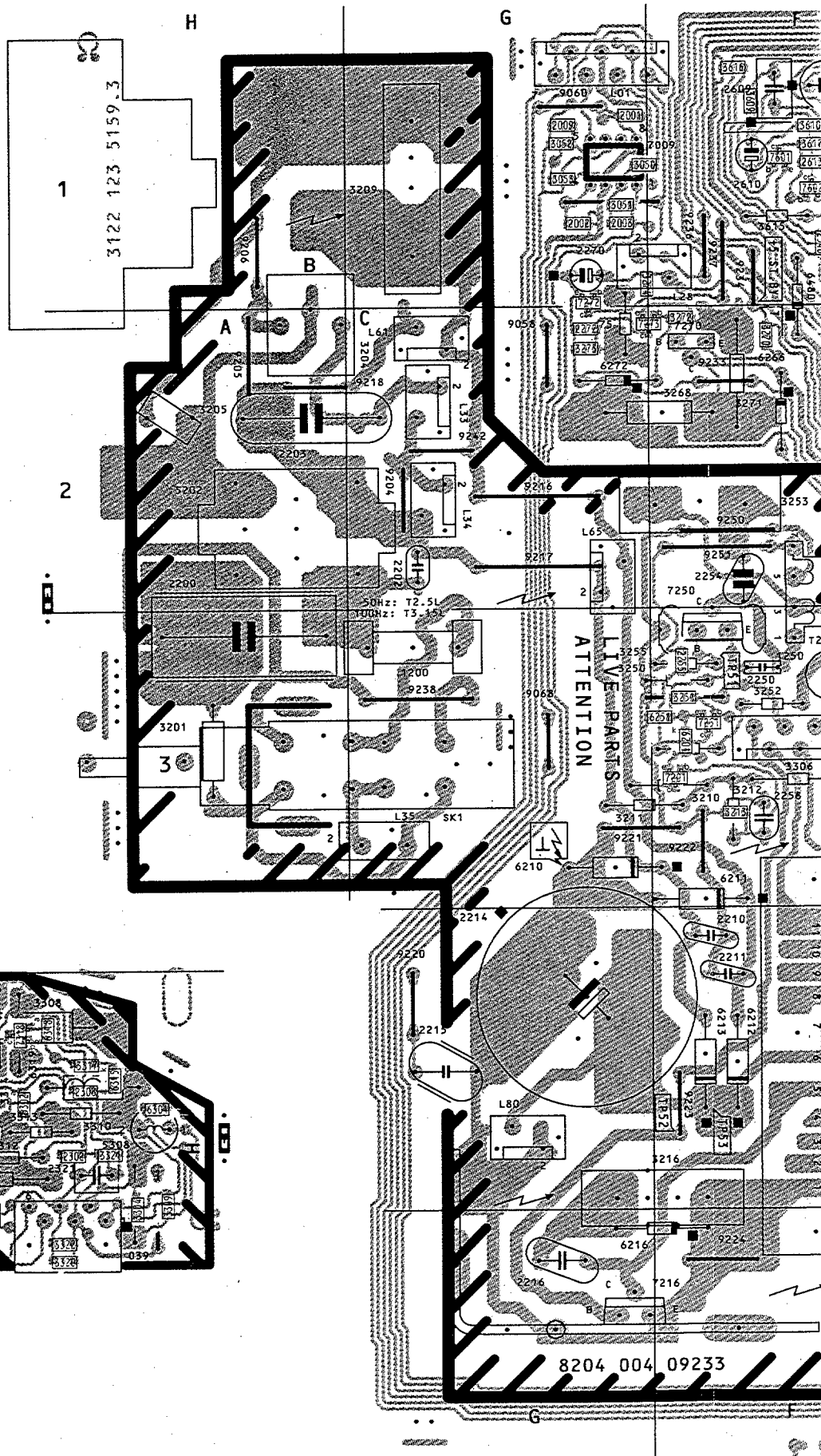
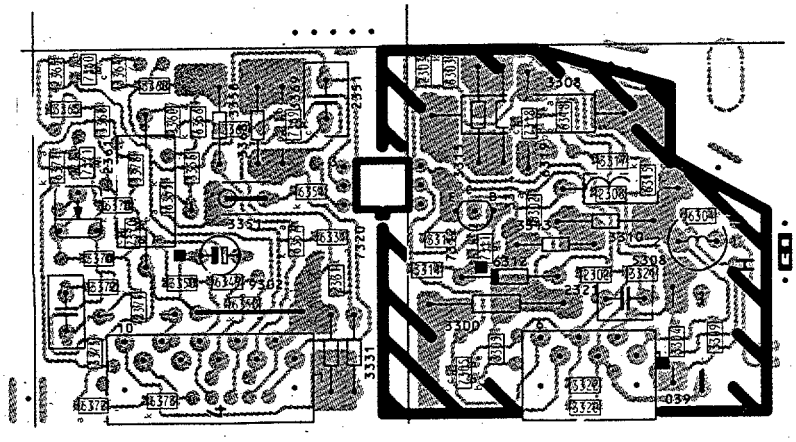
Large signal panel

Großsignal Platine

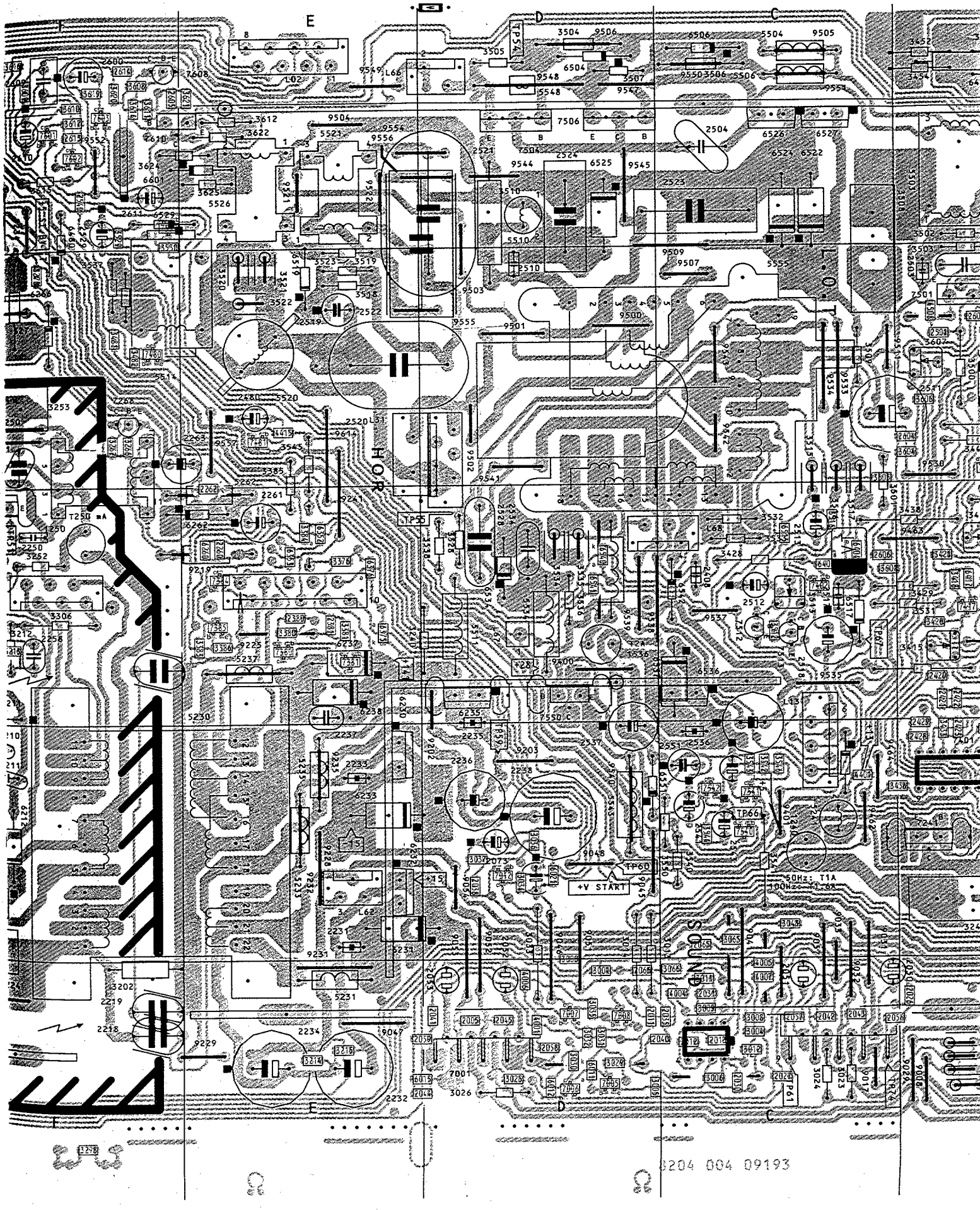
Carte

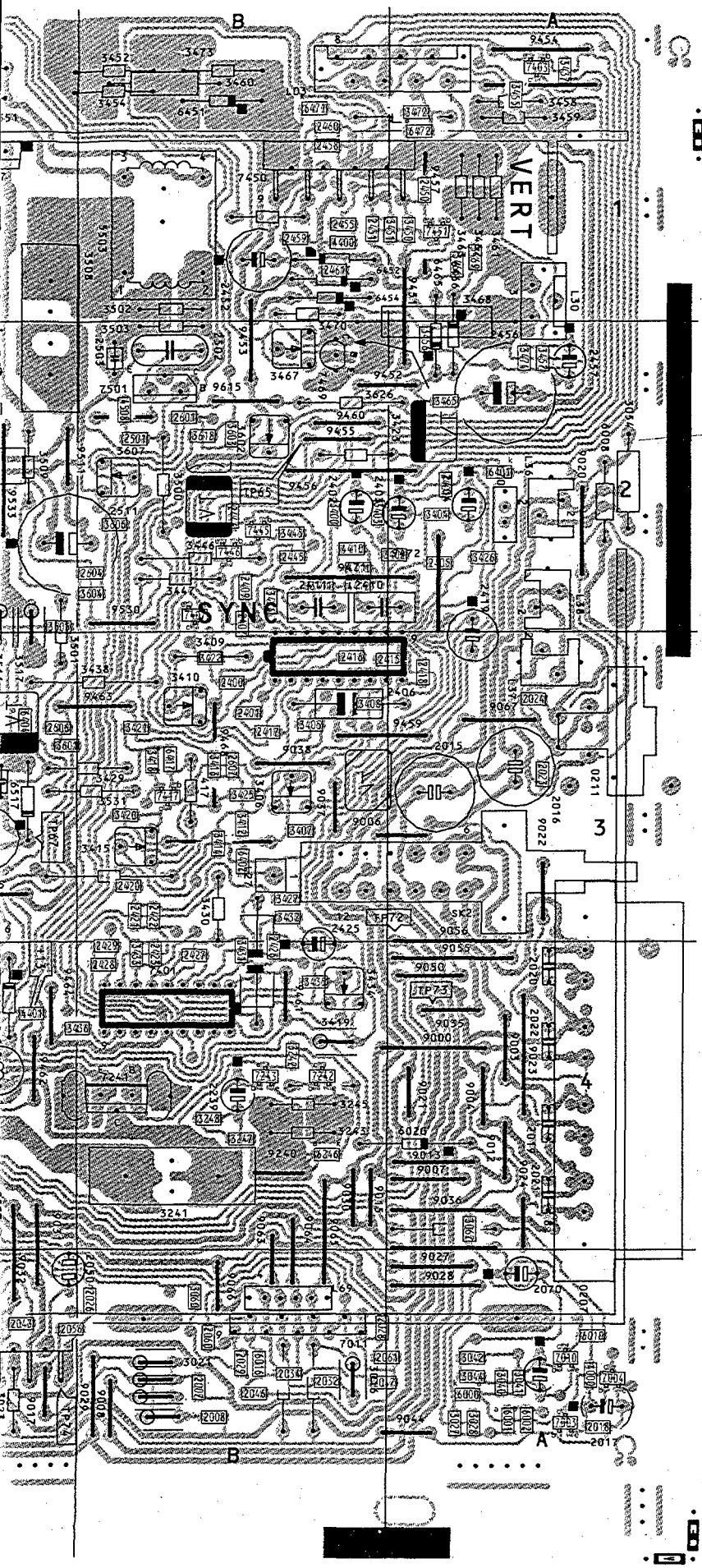


SOPS Control panel



Carte à grande signaux





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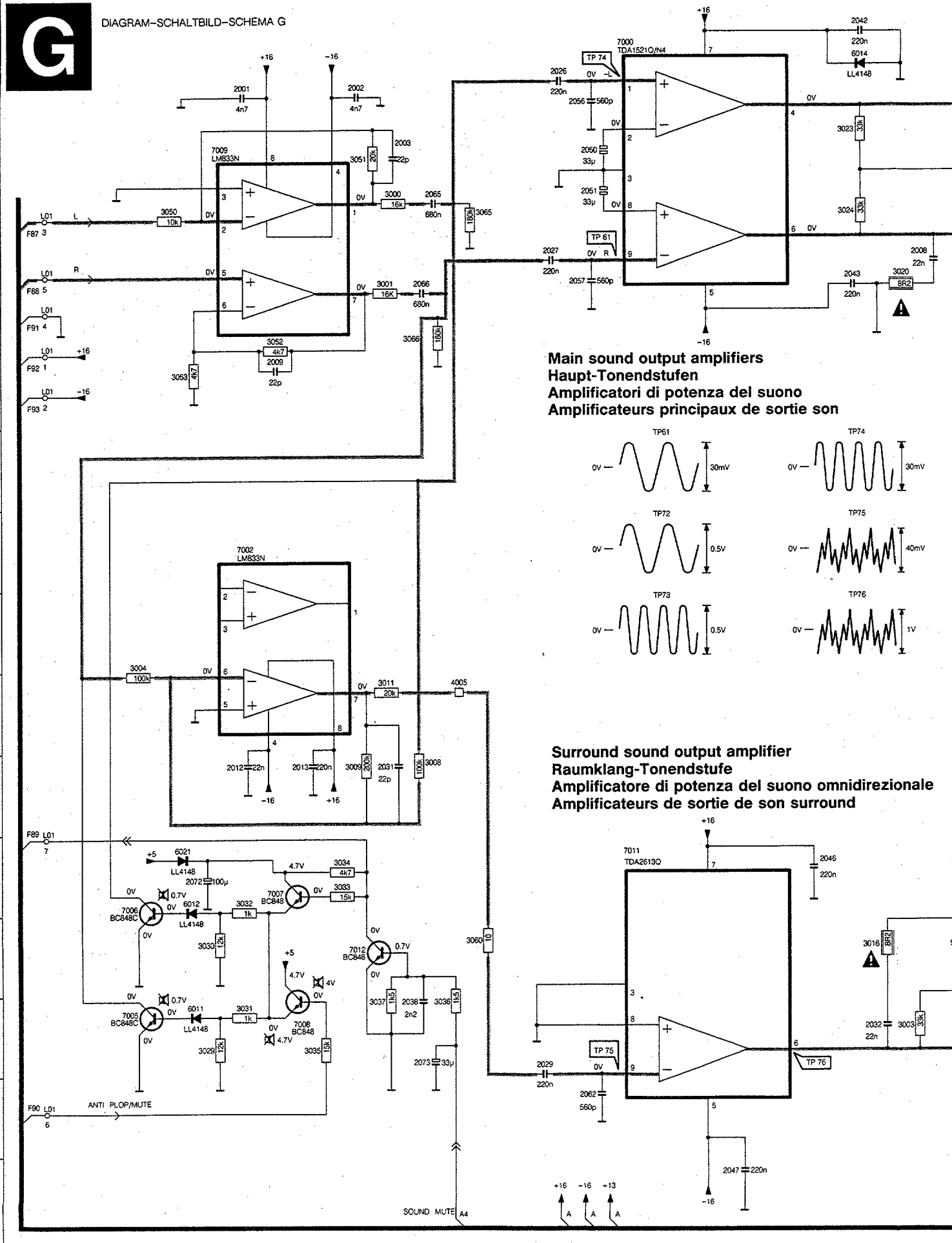
Audio output amplification

G

DIAGRAM-SCHALTBILD-SCHEMA G

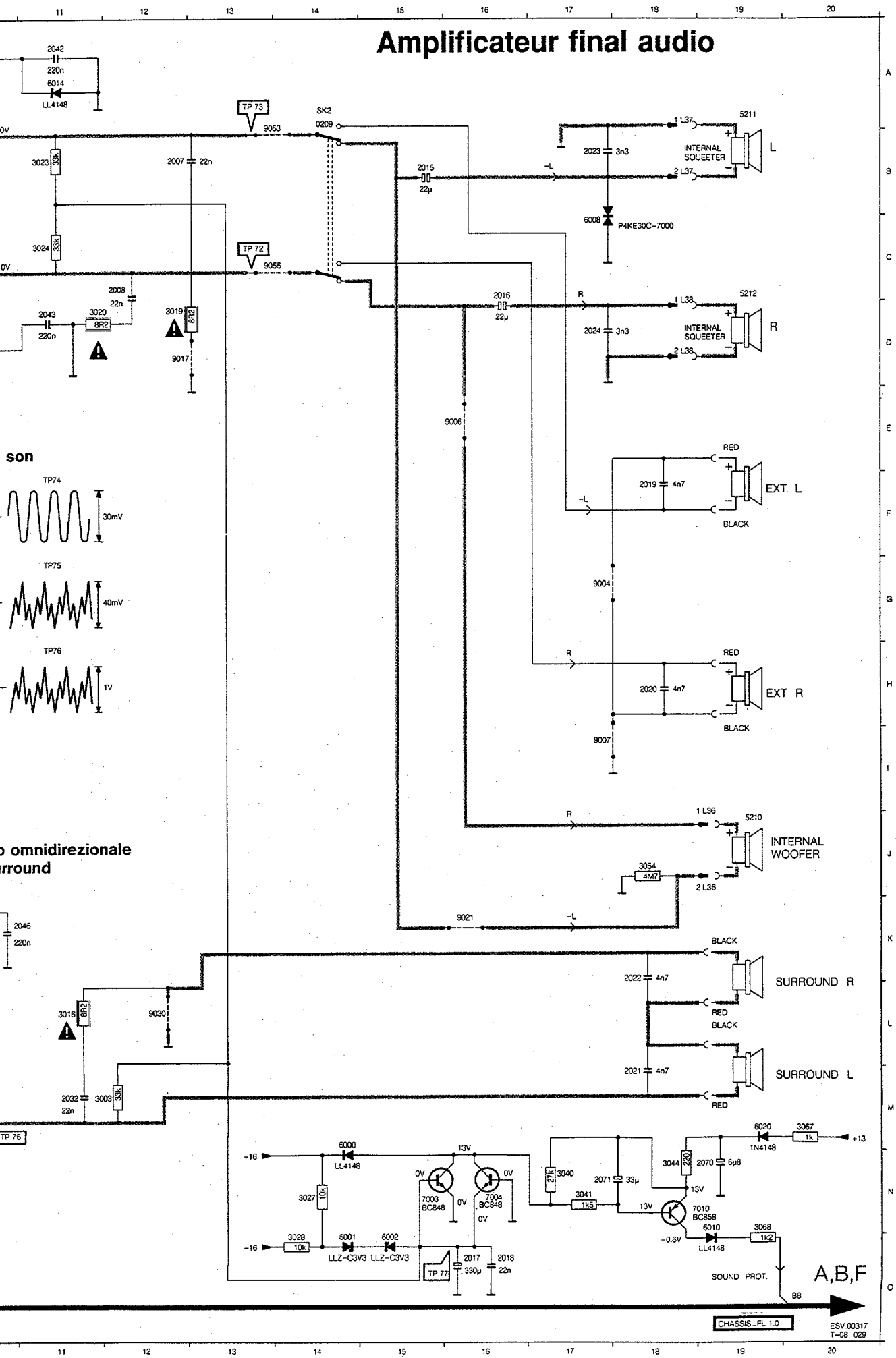


Main sound output amplifiers
Haupt-Tonendstufen
Amplificatori di potenza del suono
Amplificateurs principaux de sortie son

Surround sound output amplifier
Raumklang-Tonendstufe
Amplificatore di potenza del suono omnidirezionale
Amplificateurs de sortie de son surround

Tonsignal-Endverstärker

Amplificateur final audio



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2003 B5
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2019 F18
2020 H18
2021 M18
2022 K18
2023 B17
2024 D17
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2027 C7
2029 M7
2031 J5
2032 M11
2038 M5
2042 A11
2043 D11
2046 K11
2047 O9
2050 B8
2051 C8
2056 A7
2057 D7
2062 N8
2065 C6
2066 D6
2070 N19
2071 N17
2072 K3
2073 M6
3000 C5
3001 D5
3003 M11
3004 H2
3008 J6
3009 J5
3011 I5
3016 L11
3019 D12
3020 D11
3023 B11
3024 C11
3027 N14
3028 O14
3029 M3
3030 L3
3031 M3
3032 K3
3033 K5
3034 K5
3035 M4
3036 M6
3037 M5
3040 N17
3041 N17
3044 N18
3050 C2
3051 B5
3052 D4
3053 E3
3054 J18
3060 L6
3065 C6
3066 D5
3067 M20
3068 N19
4005 I6
6000 M14
6001 O14
6002 O15
6008 C17
6010 N19
6011 M3
6012 K3
6014 A11
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6021 K3
7000 A8
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7003 N15
7004 N16
7005 M2
7006 K2
7007 K4
7008 M4
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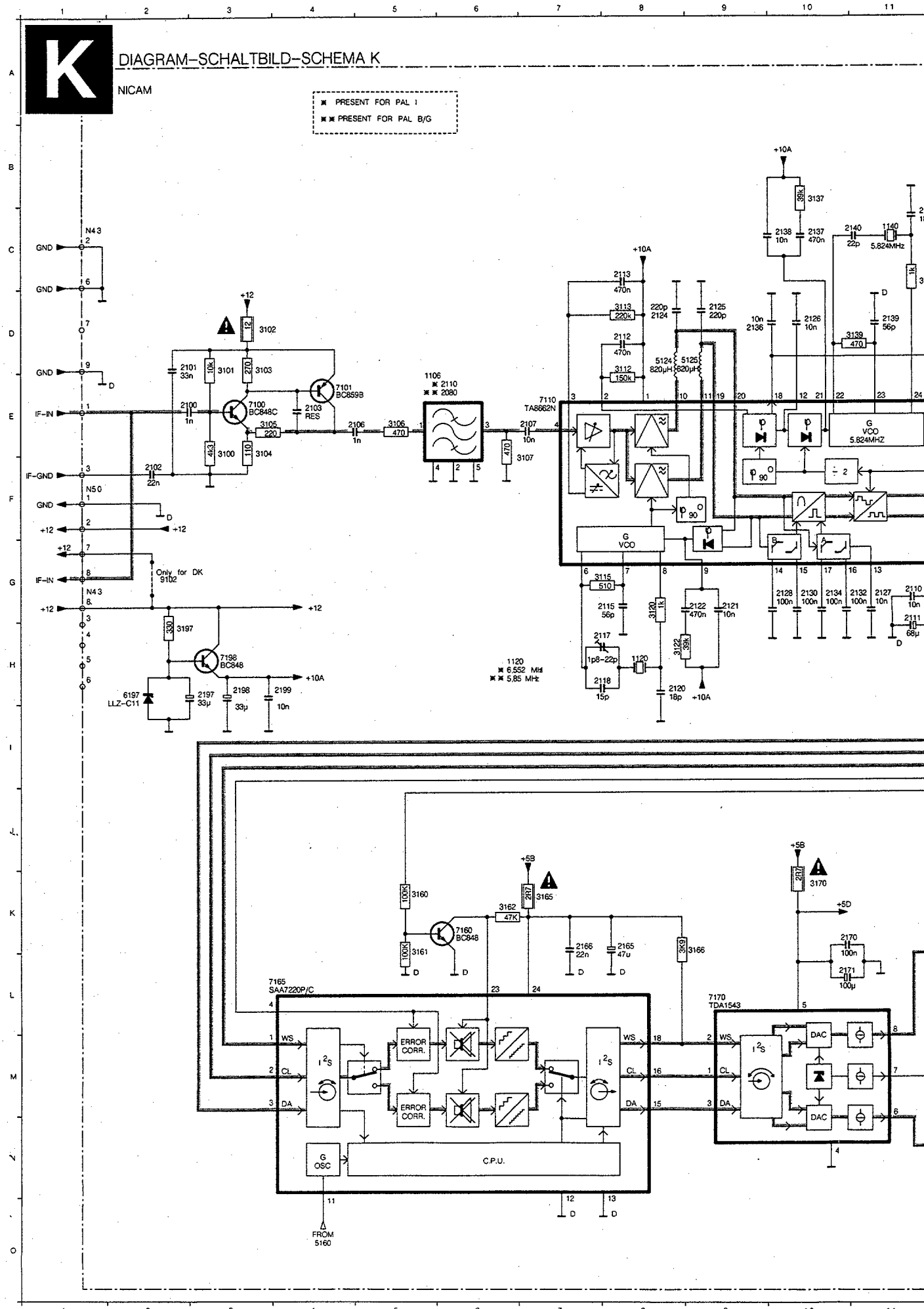
K
DIAGRAM–SCHALTBILD–SCHEMA K
NICAM
* PRESENT FOR PAL I
** PRESENT FOR PAL B/G
N43
GND
GND
GND
IF–IN
IF–GND
N50
GND
+12
+12
+12
IF–IN
N43
+12
Only for DK
9102
3102
3101
3103
3100
3104
7100 BC848C
7101 BC859B
2101 33n
2100 1n
2102 22n
2103 RES
3105 220
2106 1n
3106 470
1106
* 2110
** 2080
2107 10n
3107 470
7110 TA8662N
+10A
2113 470n
3113 220k
2112 470n
3112 150k
220p 2124
2125 220p
5124 820µH
5125 820µH
3137 39k
2138 10n
2137 470n
2140 22p
1140 5.824MHz
2136 10n
2126 10n
2139 56p
3139 470
G VCO 5.824MHZ
÷ 2
3115 510
2115 56p
3120 1k
2122 470n
2121 10n
2117 1p8–22p
1120
2118 15p
2120 18p
3122 39k
1120
* 6,552 MHz
** 5,85 MHz
2128 100n
2130 100n
2134 100n
2132 100n
2127 10n
2110 10n
2111 68µ
3197 330
7198 BC848
6197 LLZ–C11
2197 33µ
2198 33µ
2199 10n
+5B
3160 100K
3161 100K
3162 47K
3165 2R7
7160 BC848
2166 22n
2165 47u
3166 3K9
3170 2R7
+5D
2170 100n
2171 100µ
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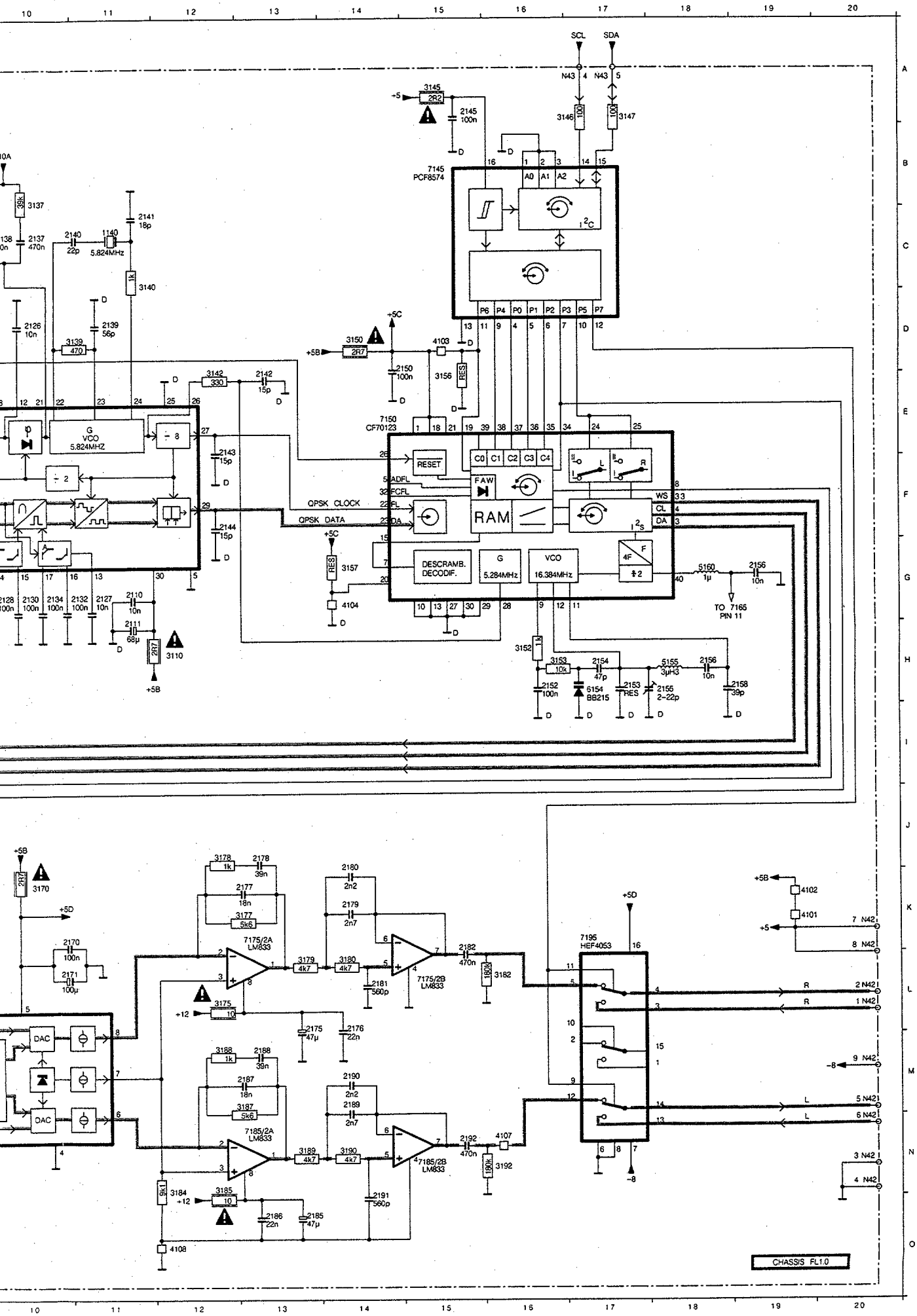
WS
CL
DA
I²S
ERROR CORR.
G OSC
C.P.U.
DAC
FROM 5160



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2126 D10
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2130 G10
2132 G11
2134 G10
2136 D9
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2138 C10
2139 D11
2140 C11
2141 C11
2142 E13
2143 E12
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2153 H17
2154 H17
2155 H18
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2156 H18
2158 H19
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2170 K10
2171 L10
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2177 K13
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3161 L5
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3166 K9
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3175 L12
3177 K13
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3179 L13
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3190 N14
3191 N14
3192 N16
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6154 H17
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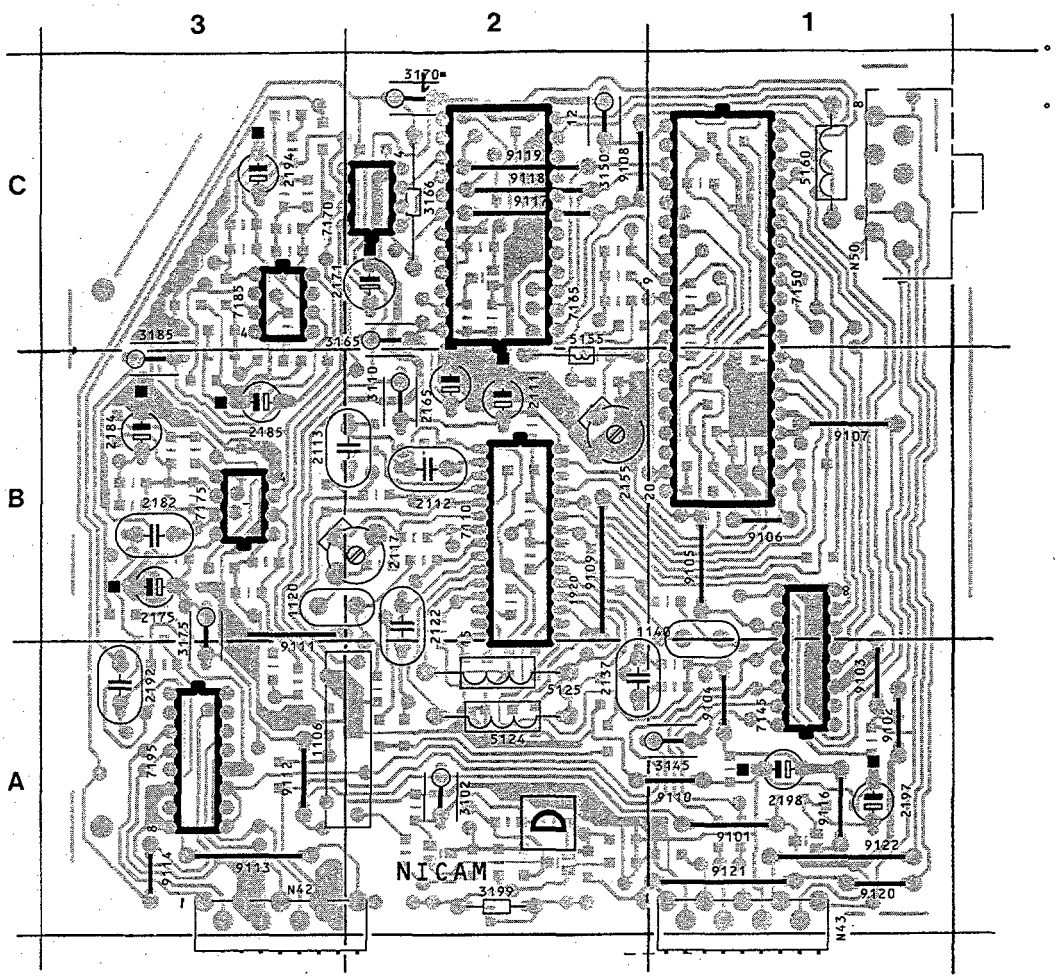

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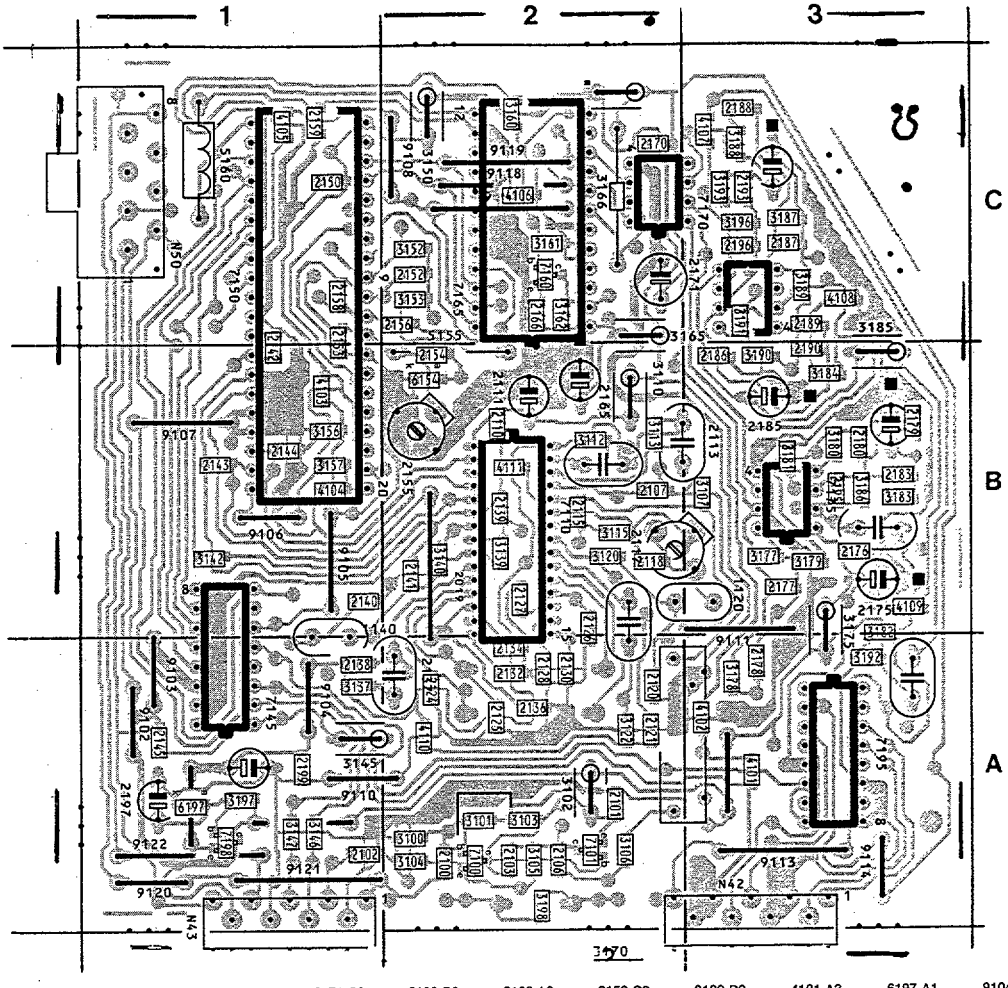

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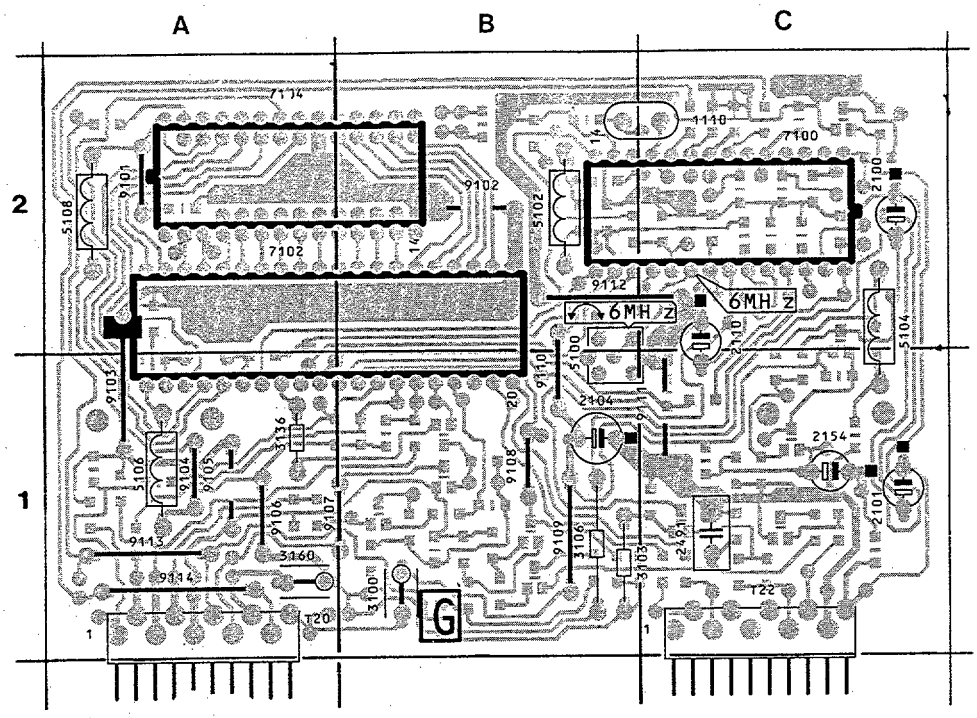

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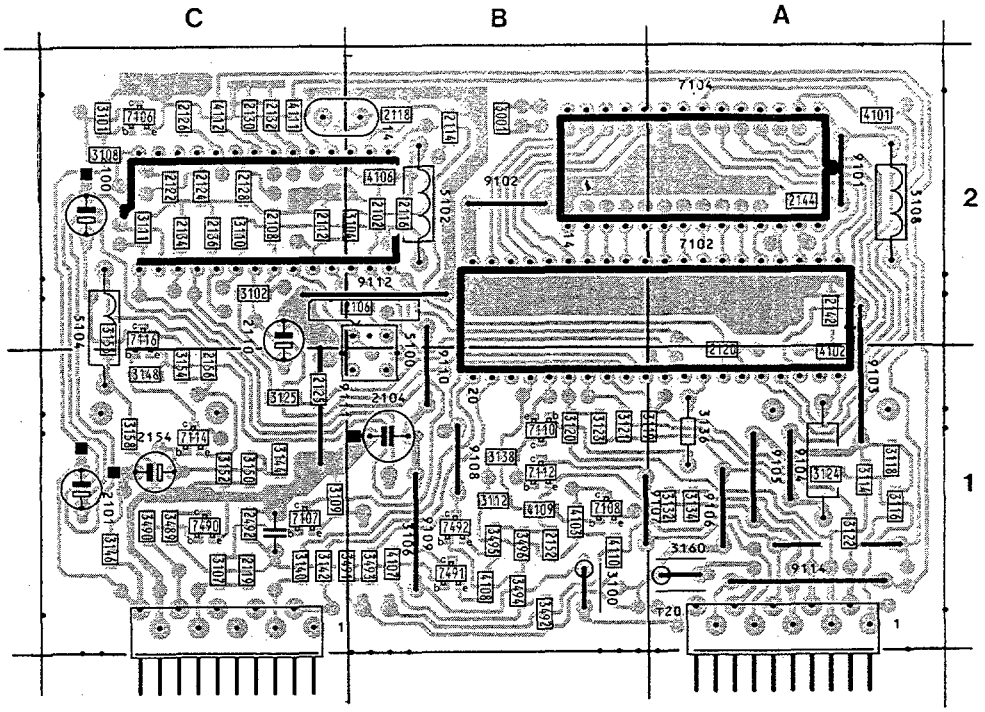
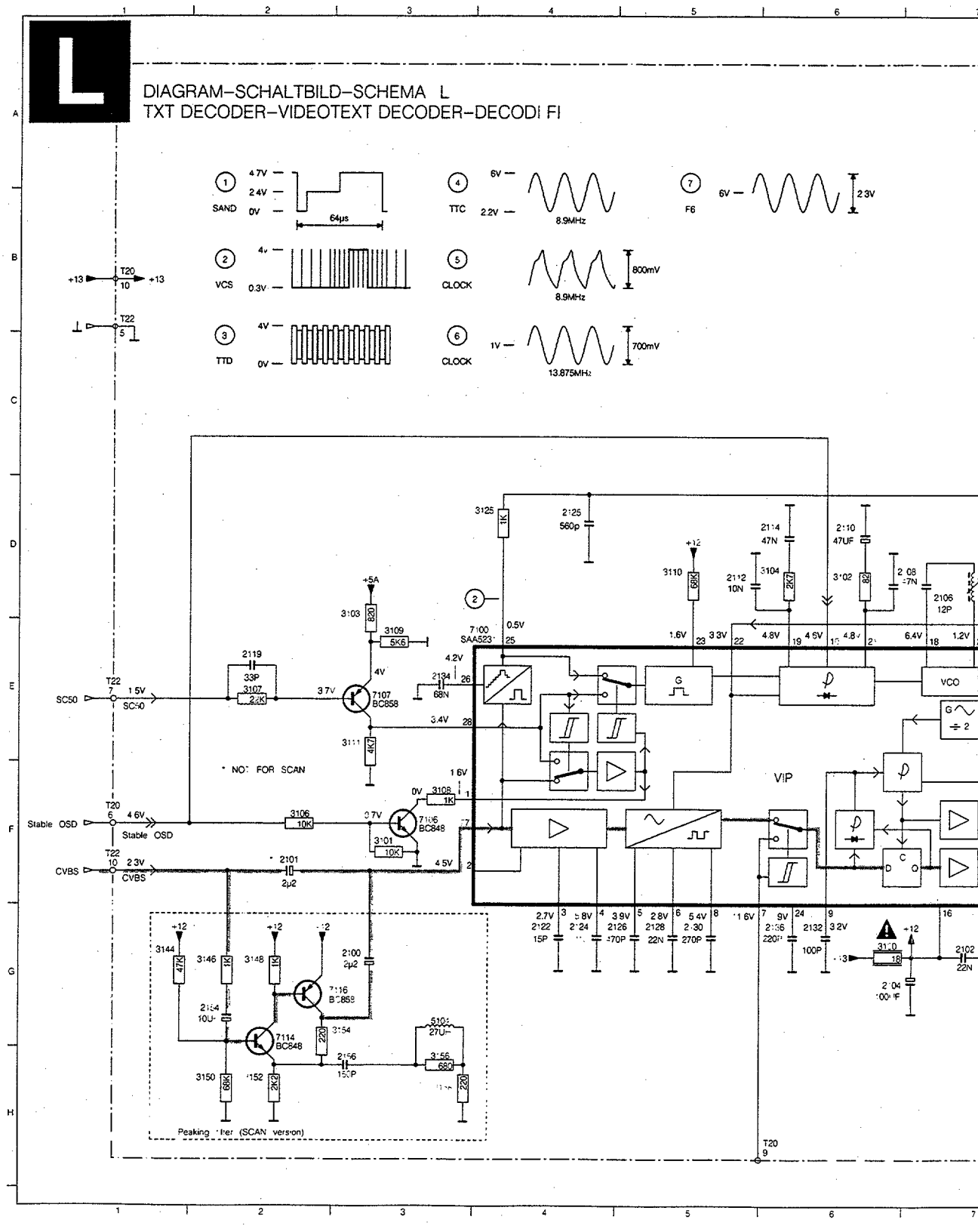
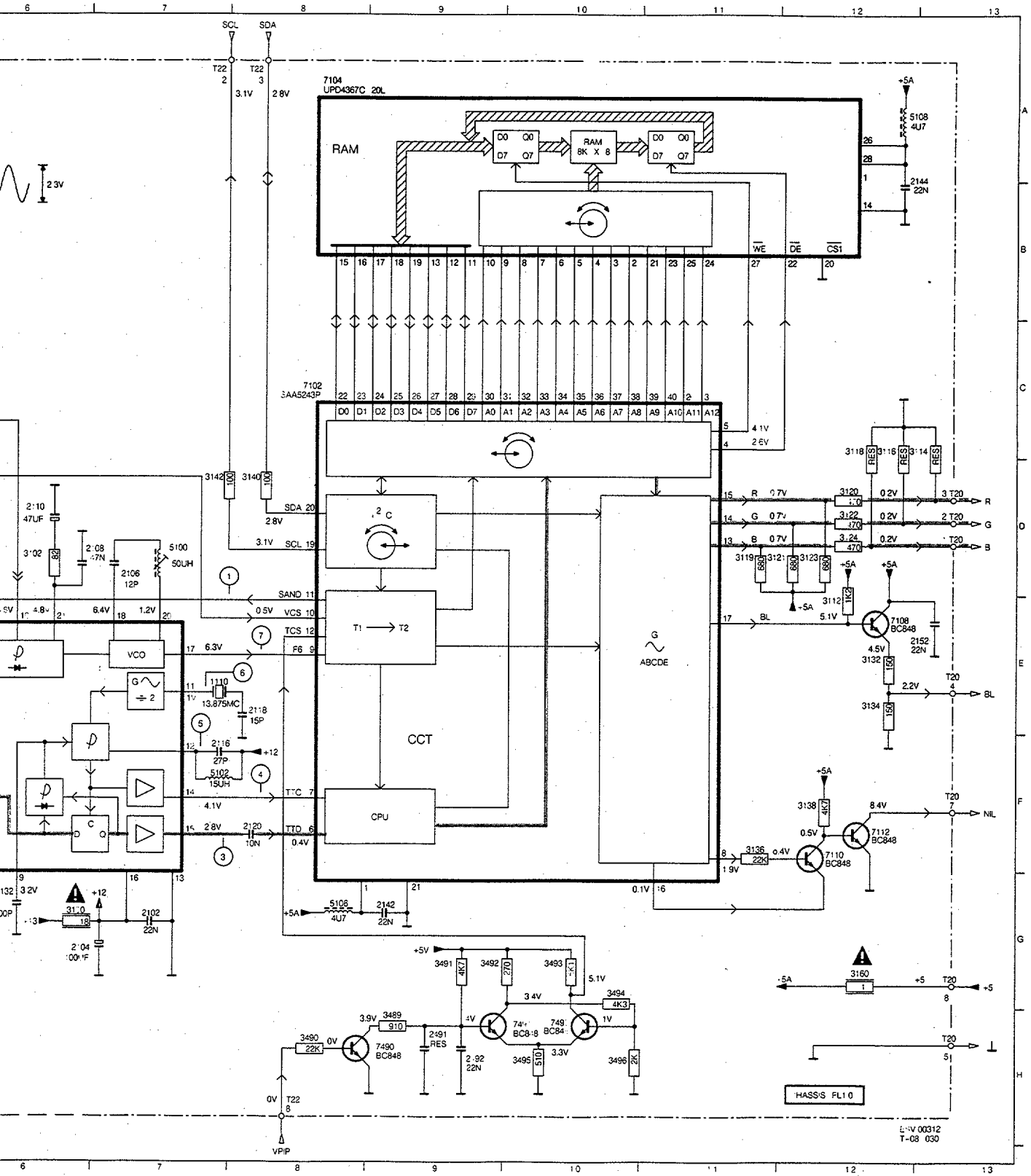
2100 C2	2126 C2	3102 C2	3125 C1	3489 C1	4111 C2	7116 C2	9113 A1
2101 C1	2128 C2	3103 B1	3132 A1	3490 C1	4112 C2	7490 C1	9114 A1
2102 B2	2130 C2	3104 B2	3134 A1	3491 B1	5100 B2	7491 B1	T20 A1
2104 B1	2132 C2	3106 B1	3136 A1	3492 B1	5102 B2	7492 B1	T22 C1
2106 B2	2134 C2	3107 C1	3138 B1	3493 B1	5104 C2	9101 A2	
2108 C2	2136 C2	3108 C2	3140 C1	3494 B1	5106 A1	9102 B2	
2110 C2	2142 A2	3109 C1	3142 C1	3495 B1	5108 A2	9103 A1	
2112 C2	2144 A2	3110 C2	3144 C1	3496 B1	7100 C2	9104 A1	
2114 B2	2152 B1	3111 C2	3146 C1	4101 A2	7102 A1	9105 A1	
2116 B2	2154 C1	3112 B1	3148 C1	4102 A1	7104 A2	9106 A1	
2118 B2	2156 C1	3119 A1	3150 C1	4103 B1	7106 C2	9107 A1	
2119 C1	2491 C1	3120 B1	3152 C1	4106 B2	7107 C1	9108 B1	
2120 A1	2492 C1	3121 B1	3154 C1	4107 B1	7108 B1	9109 B1	
2122 C2	3001 B2	3122 A1	3156 C2	4108 B1	7110 B1	9110 B1	
2124 C2	3100 B1	3123 B1	3158 C1	4109 B1	7112 B1	9111 C1	



1110 C2	2125 C1	3101 C2	3124 A1	3160 A1	4110 B1	7114 C1	9112 B2
2100 C2	2126 C2	3102 C2	3125 C1	3489 C1	4111 C2	7116 C2	9113 A1
2101 C1	2128 C2	3103 B1	3132 A1	3490 C1	4112 C2	7490 C1	9114 A1
2102 B2	2130 C2	3104 B2	3134 A1	3491 B1	5100 B2	7491 B1	T20 A1
2104 B1	2132 C2	3106 B1	3136 A1	3492 B1	5102 B2	7492 B1	T22 C1
2106 B2	2134 C2	3107 C1	3138 B1	3493 B1	5104 C2	9101 A2	
2108 C2	2136 C2	3108 C2	3140 C1	3494 B1	5106 A1	9102 B2	
2110 C2	2142 A2	3109 C1	3142 C1	3495 B1	5108 A2	9103 A1	
2112 C2	2144 A2	3110 C2	3144 C1	3496 B1	7100 C2	9104 A1	
2114 B2	2152 B1	3111 C2	3146 C1	4101 A2	7102 A1	9105 A1	
2116 B2	2154 C1	3112 B1	3148 C1	4102 A1	7104 A2	9106 A1	
2118 B2	2156 C1	3119 A1	3150 C1	4103 B1	7106 C2	9107 A1	
2119 C1	2491 C1	3120 B1	3152 C1	4106 B2	7107 C1	9108 B1	
2120 A1	2492 C1	3121 B1	3154 C1	4107 B1	7108 B1	9109 B1	
2122 C2	3001 B2	3122 A1	3156 C2	4108 B1	7110 B1	9110 B1	
2124 C2	3100 B1	3123 B1	3158 C1	4109 B1	7112 B1	9111 C1	


L
DIAGRAM–SCHALTBILD–SCHEMA L
TXT DECODER–VIDEOTEXT DECODER–DECODI FI
SAND
TTC
F6
VCS
CLOCK
TTD
CLOCK
64µs
8.9MHz
800mV
700mV
13.875MHz
SC50
Stable OSD
CVBS
* NOT FOR SCAN
VIP
VCO
Peaking filter (SCAN version)


SCL
SDA
7104
UPD4367C 20L
RAM
RAM 8K X 8
7102
SAA5243P
CCT
CPU
VCO
ABCDE
T1 → T2
I²C
HASSIS FL1.0
VPIP

ELECTRICAL SETTINGS

* Unless stated otherwise, the supply voltage used is:
  220 - 240V ± 10%
  50 - 60Hz ± 5%

* Warming-up time ≈ 20 minutes

* Voltages and oscillograms are measured in relation to tuner earth. **Never** use the cooling plates as earth.

A. ELECTRICAL SETTINGS ON THE LARGE SIGNAL PANEL

1. +141V supply voltage
Supply the mains voltage; this must be isolated from the mains.
Connect a voltmeter over C2238.
Using R3371, on the SOPS DRIVE CIRCUIT (fig. 7.1) set the supply voltage to + 141V ± 0.5V.

2. Focusing
This is set using the focusing potentiometer (at the top on the line output transformer).

3. Vg2 setting
Supply an aerial signal.
Set the contrast to maximum and the brightness and saturation to nominal.
Using an oscilloscope set to field frequency, measure the direct voltage level of the measurement pulse (fig. 7.2) on pin 9 of IC7705, IC7706 and IC7707 in relation to earth.
Now set the highest found direct voltage level using the Vg2 potentiometer (on the bottom on the line output transformer) to 150V ± 2V.
Note: probe Ri > 10MΩ; Ci < 3.5pF

4. Horizontal synchronization
Connect point 5-IC7400 briefly to point 9-IC7400.
Supply an aerial signal and set the receiver.
Adjust potentiometer R3406 until the picture is straight.
Break the through connection.

5. Horizontal centring
Set using potentiometer R3513.

6. Picture width
Set using potentiometer R3607.

7. Vertical centring
Set using potentiometer R3467.

8. Picture height
Set using potentiometer R3410.

9. East/West correction
Set using potentiometer R3602.

B. ELECTRICAL SETTINGS ON THE SMALL SIGNAL PANEL

* Note: For all measurements it is true that:
  probe Ri > 1MΩ; Ci < 10pF

1. Stereo audio channel separation
Connect a signal generator with a 2 carrier stereo signal ("stereo" mode).
Select 1kHz for the right-hand channel and switch off the sound for the left-hand channel.
Connect an oscilloscope to pin 3 of Euroconnector EXT1
Using R3602 on the small signal panel, set the amplitude of the signal to minimum amplitude.

2. 4.43 MHz chroma suppression circuit
Supply a colour bar signal. Connect an oscilloscope to point 17 of IC7324 and set L5305 to minimum amplitude of the chrominance signal.

3. SECAM 4.28 MHz clock filter (units with TDA4650)
Supply a 4.28 MHz generator signal.
Connect point 27-IC7365 briefly to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5345 to maximum amplitude.
Remove the short circuit.

4. PAL 4.43 MHz (units with TDA4510)
Supply a 4.43 MHz generator signal.
Connect an oscilloscope to point 9 of IC7364.
Set L5345 to minimum amplitude.

5. 4.50 MHz NTSC sound suppression
Connect a generator to point 20 of Euroconnector EXT1 with a frequency of 4.50 MHz and 200mV$_{rms}$.
Connect point 26-IC7365 briefly to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

6. 6.50 MHz SECAM DK sound suppression
Connect a sine-wave generator to point 20 of Euroconnector EXT1 with a frequency of 6.50 MHz and 200mV$_{rms}$.
Connect point 28-IC7365 briefly to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

7. 8.87 MHz PAL/SECAM chroma oscillator
Connect a pattern generator and supply a PAL colour bar signal.
Connect point 17-IC7365 briefly to earth.
Connect the X-input of the oscilloscope to point 1-IC7365.
Connect the Y-input of the oscilloscope to point 3-IC7365.
Set the oscilloscope to the X-Y position.
Set C2380 so that the oscilloscope picture is as stable as possible.
Remove the short circuit.

8. 7.16 MHz NTSC chroma oscillator
Connect a pattern generator and supply an NTSC M colour bar signal.
Connect point 17-IC7365 briefly to earth.
Connect the X-input of the oscilloscope to point 1-IC7365.
Connect the Y-input of the oscilloscope to point 3-IC7365.
Set the oscilloscope to the X-Y position.
Set C2379 so that the oscilloscope picture is as stable as possible.
Remove the short circuit.

9. SECAM demodulators
Connect a pattern generator and supply a SECAM signal without contents (black).
Connect point 27-IC7365 briefly to point 13-IC7365.
Connect an oscilloscope to point 3-IC7365.
Using L5370, set the DC level during the pull-back the same as the DC level during the flyback.
Set R3370 in the same way, but now measure at point 1-IC7365.

C. WHI
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Mode:

SERVICE
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c blue XX

2. Optior

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C. WHITE CONTROL R, G, B AND OPTIONS

These service settings are made in the **Service Mode** and can be carried out using a remote control.

In order to set the unit to the Service Mode, pins S23 and S24 on the small signal panel (fig. 7.1) must be short-circuited briefly.
The following menu appears on the screen in the Service Mode:

SERVICE YY-MM-DD
a options XXX
b green XXX
c blue XXX

Here "YY-MM-DD" is the release date of the software present in the unit.
The required setting can be selected using menu keys a, b or c on the remote control.
By pressing the **"PP store"** key on the local keyboard, the set values are stored in the memory and you exit from the Service Mode.

1. White control R, G and B
Connect a pattern generator and select the white picture.
R has a fixed setting.
Using **P +/-**, set the values for green and blue so that the required white level is obtained.

2. Options

The options are presented by a number between 0 and 255.
The possible options are shown in the table below:

PAL BG	PAL BG SECAM BG	PAL I	PAL BGI SECAM BGLL'	PAL BG SECAM BGL NTSC M	PIP	NICAM	SECAM DK	OPTION NUMBER
X	-	-	-	-	-	-	-	000
X	-	-	-	-	X	-	-	008
X	-	-	-	-	-	X	-	064
X	-	-	-	-	X	X	-	072
-	X	-	-	-	-	-	-	000
-	X	-	-	-	X	-	-	008
-	X	-	-	-	-	X	-	064
-	X	-	-	-	X	X	-	072
-	-	X	-	-	-	-	-	001
-	-	X	-	-	X	-	-	009
-	-	X	-	-	-	X	-	065
-	-	X	-	-	X	X	-	073
-	-	-	X	-	-	-	-	002
-	-	-	X	-	X	-	-	010
-	-	-	X	-	-	X	-	066
-	-	-	X	-	X	X	-	074
-	-	-	-	X	-	-	-	018
-	-	-	-	X	X	-	-	026
-	-	-	-	X	-	X	-	082
-	-	-	-	X	X	X	-	090
-	-	-	-	X	-	X	X	114
-	-	-	-	X	X	X	X	122

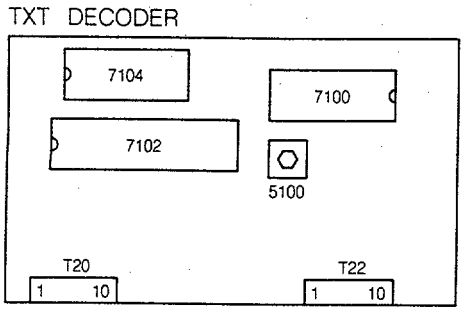
For example:
European multireceiver (BGLM)
- with DK system
- with PIP
- with NICAM

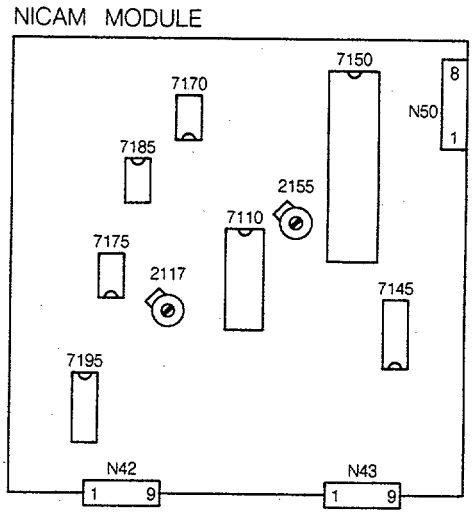
has as option number 122

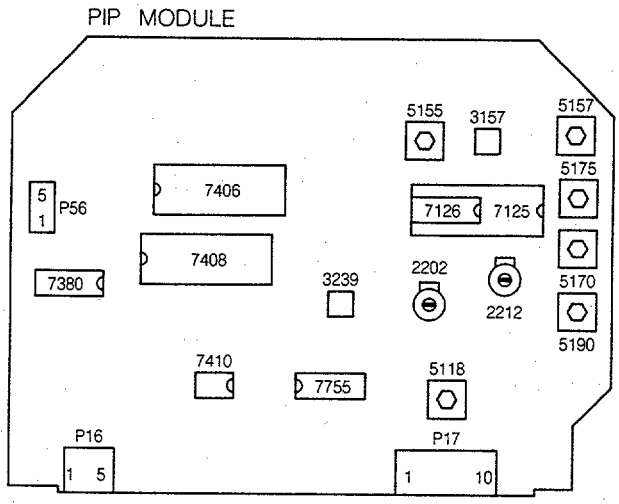
The option number can be set using P +/-.

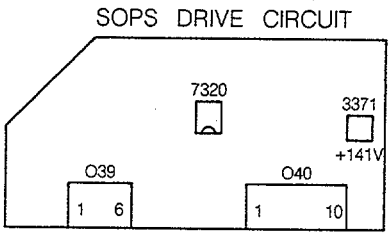
However, these are software modifications in the unit.
If the unit has to be equipped for these features, you must also make the necessary hardware modifications.

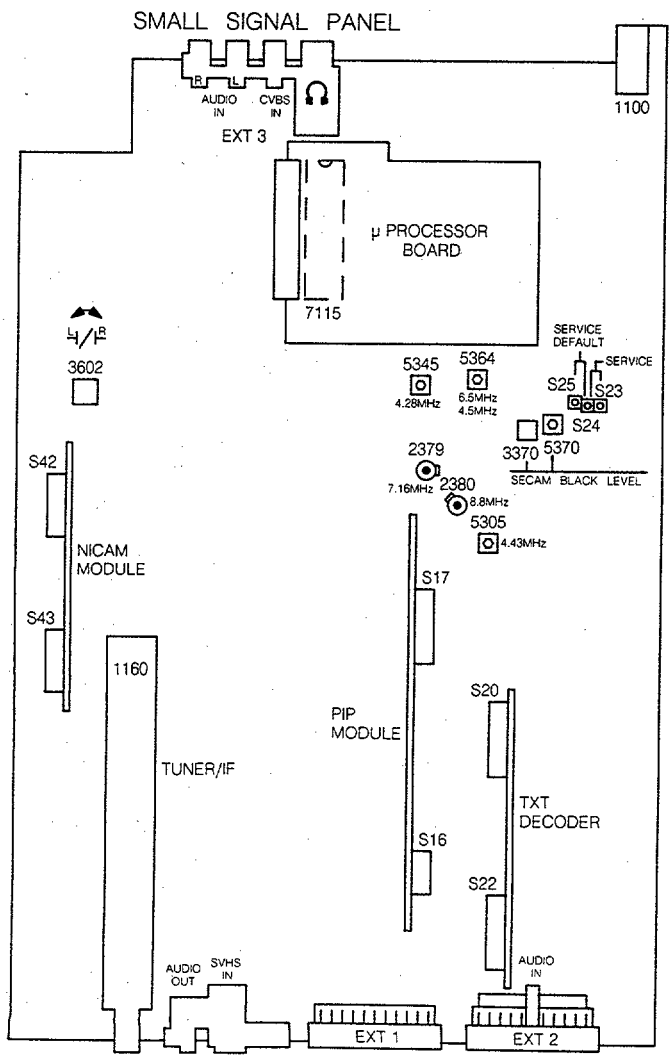
Electrical settings











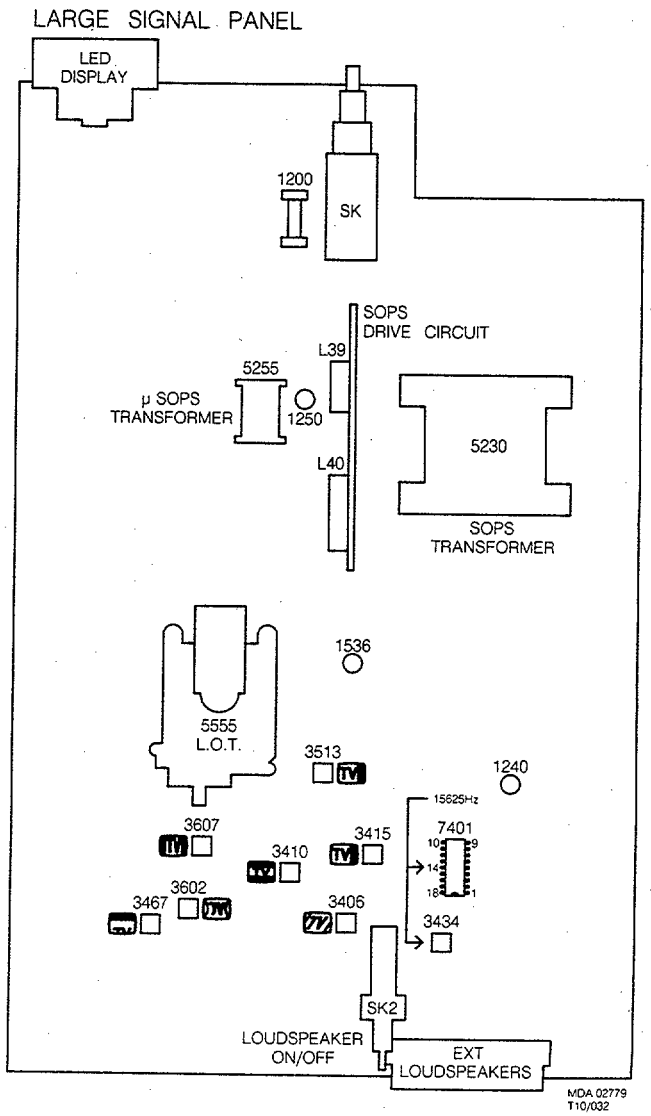


fig. 7.1

D. ELECTRICAL SETTINGS ON THE PIP PANEL

Before carrying out each setting, it should be ensured that a P.I.P. picture with colour bar is visible on the screen and the unit should have reached its operating temperature (after ≈ 20 min.).

1. Horizontal frequency drift compensation
Supply an aerial or generator signal.
Connect pin 28-IC7125 briefly to pin 13-IC7125.
Connect pin 5-IC7755 briefly to earth.
Measure the frequency on pin 17-IC7755 and set this to 15,625 Hz ± 25 Hz with R3239.
Remove the short circuits.

2. SECAM band pass
Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 briefly to 13-IC7125.
Trigger the oscilloscope with the "sandcastle" signal (pin 17-IC7125).
Set L5118 so that the AM modulation is minimum (pin 15-IC7125).
Remove the short circuit.

3. 8.87 MHz PAL/SECAM oscillator
Connect a pattern generator and supply a PAL colour bar signal.
Connect pin 28-IC7125 briefly to pin 13-IC7125.
Connect pin 17-IC7125 briefly to earth.
Connect the X-input of the oscilloscope to pin 1-IC7125.
Connect the Y-input of the oscilloscope to pin 3-IC7125.
Set the oscilloscope to the X-Y position.
Set C2202 so that the oscilloscope picture is as stable as possible.
Remove the short circuits.

4. 7.16 MHz NTSC oscillator
Connect a pattern generator and supply an NTSC M colour bar signal.
Connect pin 26-IC7125 briefly to pin 13-IC7125.
Connect pin 17-IC7125 briefly to earth.
Connect the X-input of the oscilloscope to pin 1-IC7125.
Connect the Y-input of the oscilloscope to pin 3-IC7125.
Set the oscilloscope to the X-Y position.
Set C2212 so that the oscilloscope picture is as stable as possible.
Remove the short circuits.

5. PAL delay line
Connect a pattern generator and supply a PAL colour bar signal.
Connect pin 28-IC7125 briefly to pin 13-IC7125.
Connect the X-input of the oscilloscope to pin 1-IC7125.
Connect the Y-input of the oscilloscope to pin 3-IC7125.
Set the oscilloscope to the X-Y position.
Set L5155 and L5157 so that the vectors are in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors are on top of one another in the origin.
Remove the short circuits.

6. SECAM identification
Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 briefly to pin 13-IC7125.
Connect an oscilloscope to pin 1-IC7125.
Using L5190, set to minimum DC level.

7. SECAM demodulators
Connect a pattern generator and supply a SECAM signal without contents (black).
Connect pin 27-IC7125 briefly to pin 13-IC7125.
Connect an oscilloscope to pin 1-IC7125.
Using L5175, set the DC level during the pull-back equal to the DC level during the flyback.
Set L5170 in the same way, but now measure at pin 3-IC7125.

E. ELECTRICAL SETTINGS ON THE NICAM DECODER PANEL

1. The NICAM demodulator
Supply an aerial or generator signal which has a NICAM audio signal.
Connect the X-input of the oscilloscope to pin 19-IC7110.
Connect the Y-input of the oscilloscope to pin 20-IC7110.
Set the oscilloscope to the X-Y position.
Set the sensitivity of the oscilloscope to 1V/div AC.
Set the X and Y position so that the cross pattern is in the centre of the oscilloscope picture.
Set C2117 on a straight cross pattern (see fig. 7.3).

2. The "Sample" clock oscillator
Supply an aerial or generator signal which has a NICAM audio signal.
Connect an oscilloscope to pin 9-IC7150.
Set the sensitivity of the oscilloscope to 1V/div and the time base to 2µs/div.
Set C2155 so that a symmetrical block wave is visible.

F. ELECTRICAL SETTING ON THE TELETEXT DECODER

Connect pin 22-IC7100 briefly to earth.
Connect a frequency counter to pin 17-IC7100.
Using L5100, set to 6,000 MHz ± 30kHz.
Remove the short circuit.

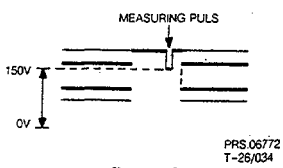


fig. 7.2

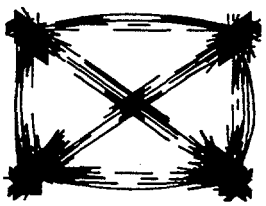


fig. 7.3

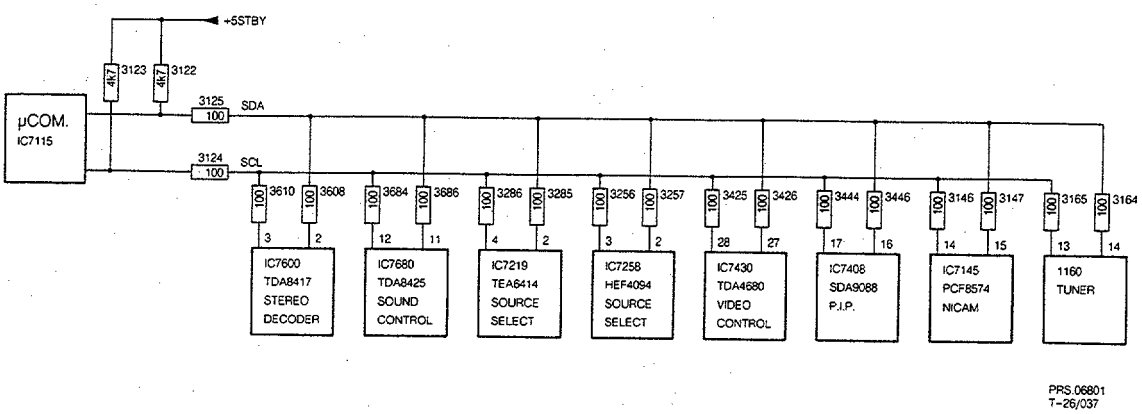
MDA.01468
T28/826

List of error messages

LIST OF ERROR MESSAGES

NO. Description	LED						
	St.by	Surr.	On	Spat.	Dual I	Stereo	Dual II
01 D2B (MSM 6307)	X				X	X	
02 NICAM (expander)	X						X
03 TXT. 50 Hz. (ECCT)	X				X		
04 TXT. 100 Hz. (DVTB)			X		X		
05 PIP (processor)			X				X
06 TDA8417 (stereo)	X		X		X		
07 TDA8425 (sound)							X
09 TDA4680 (chroma)			X		X	X	
10 TDA8443 (YUV - RGB)	X		X				X
11 TSA5512 (PLL)	X		X				
12 X2404 (xicor)					X		
13 I²C						X	
14 HEF strobe			X			X	
15 Enable 1 level	X		X			X	
16 Enable 2 level					X	X	
17 Remote control input	X					X	
18 Intern 8032 RAM			X		X		X
19 UART	X		X		X	X	
20 Extern 8032 RAM	X		X		X		X

I2C Block diagram



Repair tips

8. Servicing of SMDs (Surface Mounted Devices)

8.1 General cautions on handling and storage.

a) Oxidation on the SMDs terminals results in poor soldering. Do not handle SMDs with bare hands.
b) Avoid for storage places that are sensitive to oxidation such as places with sulfur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
As a result the capacitance or resistance value of the SMDs may be affected.
c) Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

8.2 Removal of SMDs

a) Heat the solder (for 2–3 seconds) at each terminal of the chip. Small components can, by means of litz wire and a limited horizontal force, be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 2a) or
b) While holding the SMD with a pair of tweezers take it off gently using the soldering iron's heat applied to each terminal (see Fig. 2b).
c) Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 2c).

Caution on removal:

a) When handling the soldering iron, use suitable pressure and be careful.
b) When removing the chip, do not use undue force with the pair of tweezers.
c) The soldering iron to be used (approx. 30 W), must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
d) The chip, once removed, must **never** be used again.

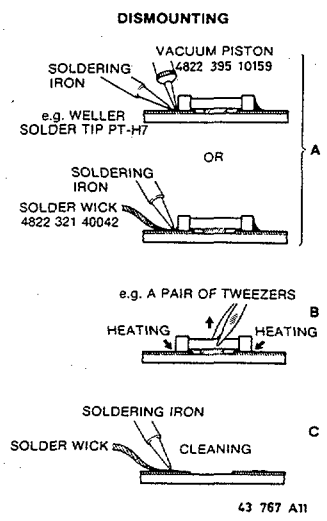


Fig. 2

8.3 Attachment of SMDs

a) Locate the SMD on the solder lands by means of tweezers and solder the component at one side. Ensure that the component is positioned well on the solder lands (see Fig. 3a).
b) Next complete the soldering of the terminals of the component (see Fig. 3b).

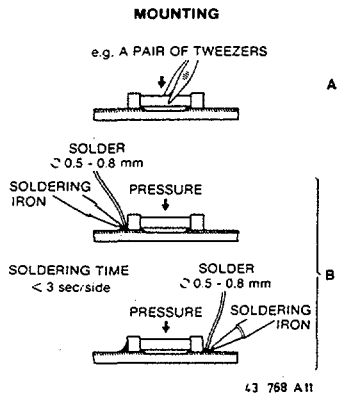


Fig. 3

Caution on attachment:

a) When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering must be as quick as possible; care must be taken to avoid damage to the terminals and the body itself.
b) Keep the SMD's body in contact with the printed board when soldering.
c) The soldering iron to be used (approx. 30 W) must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
d) Soldering should not be done outside the solder land.
e) Soldering flux (of rosin) may be used but should not be acidic.
f) After soldering, let the SMD cool down gradually at room temperature.
g) The quantity of solder must be proportional with the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 4).

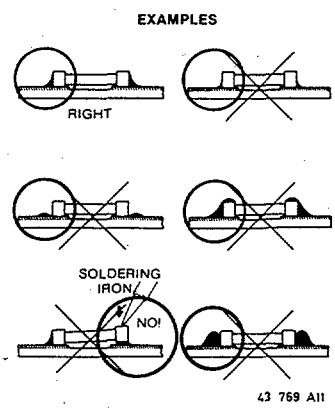
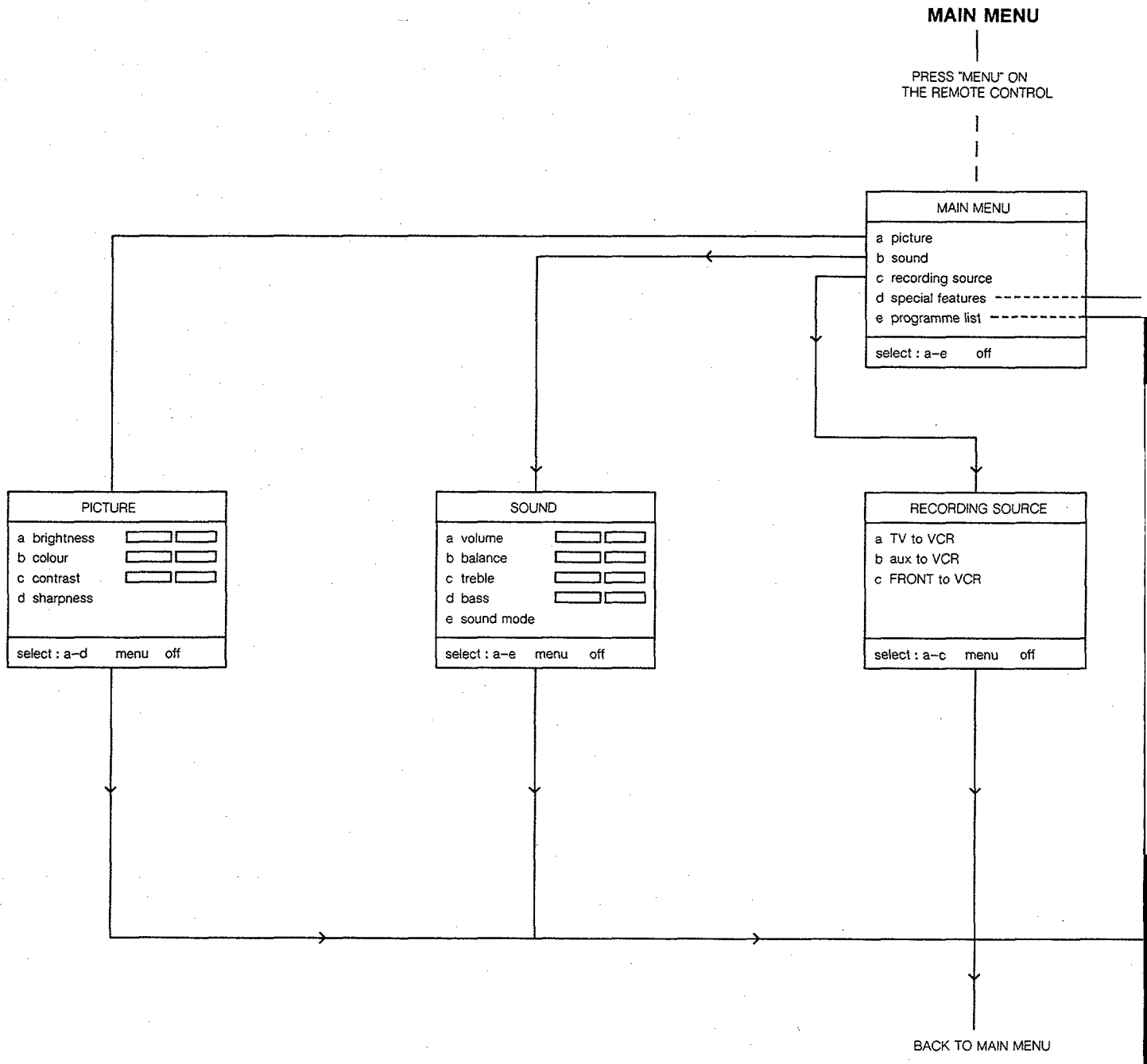
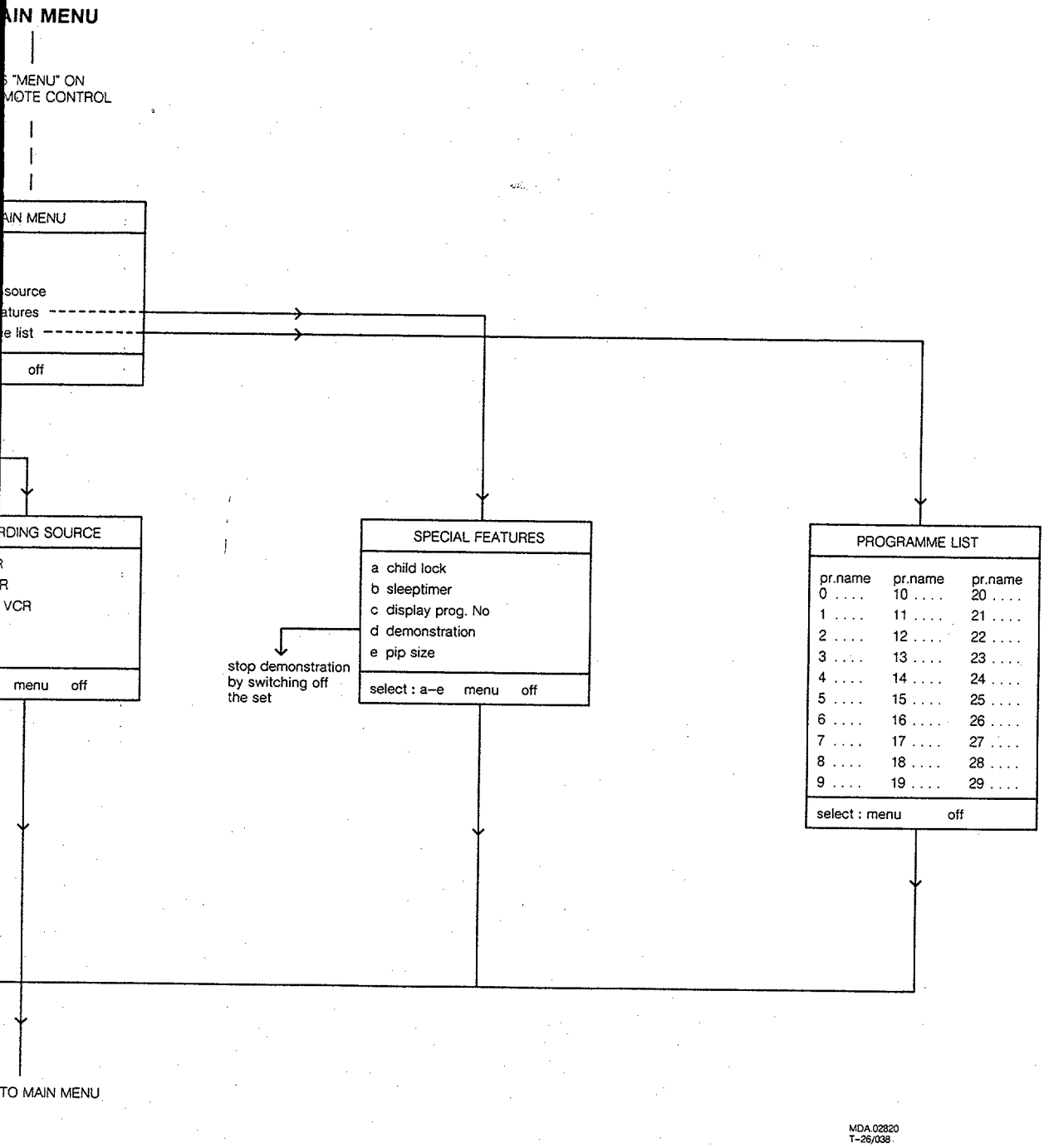


Fig. 4

List of menus





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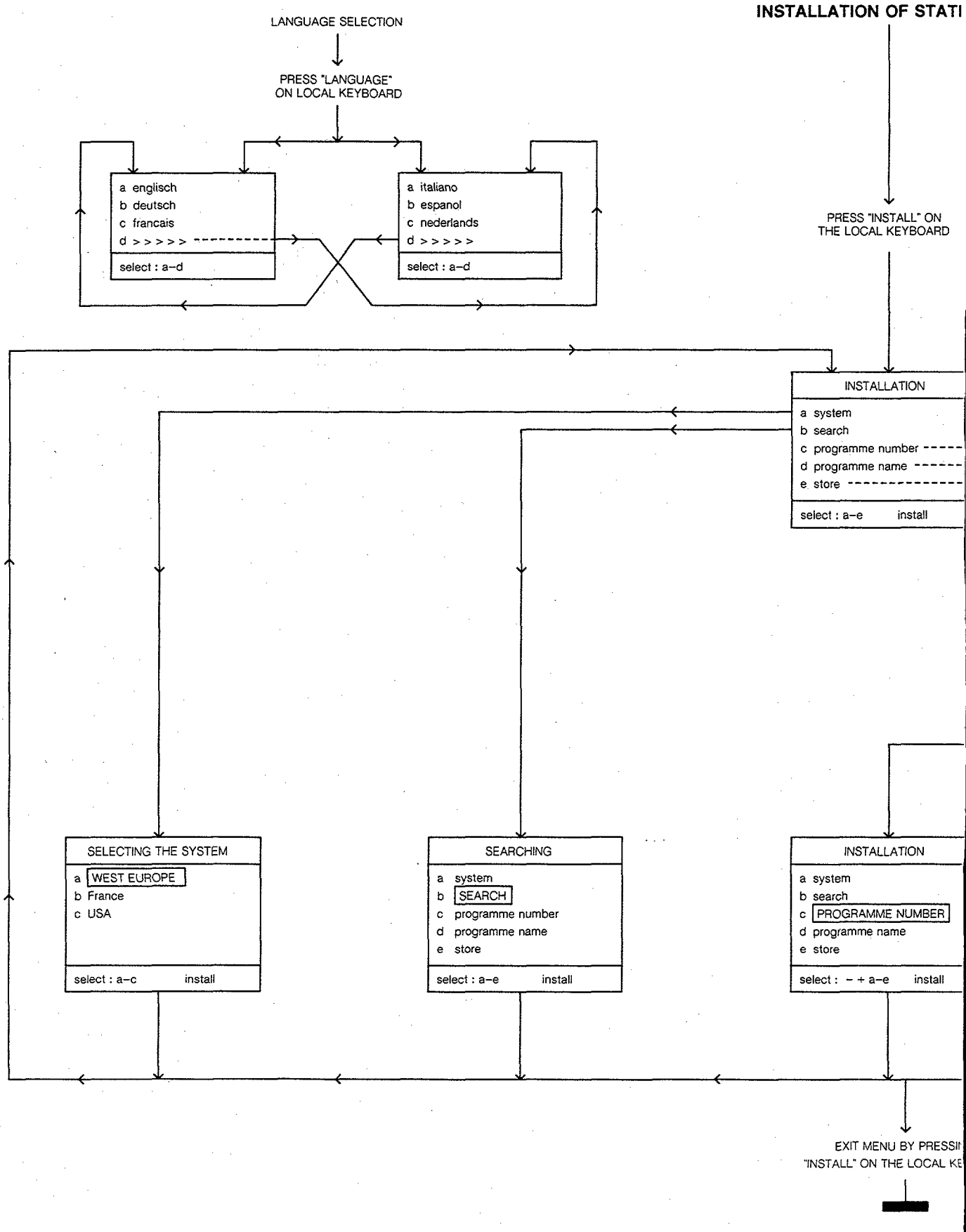
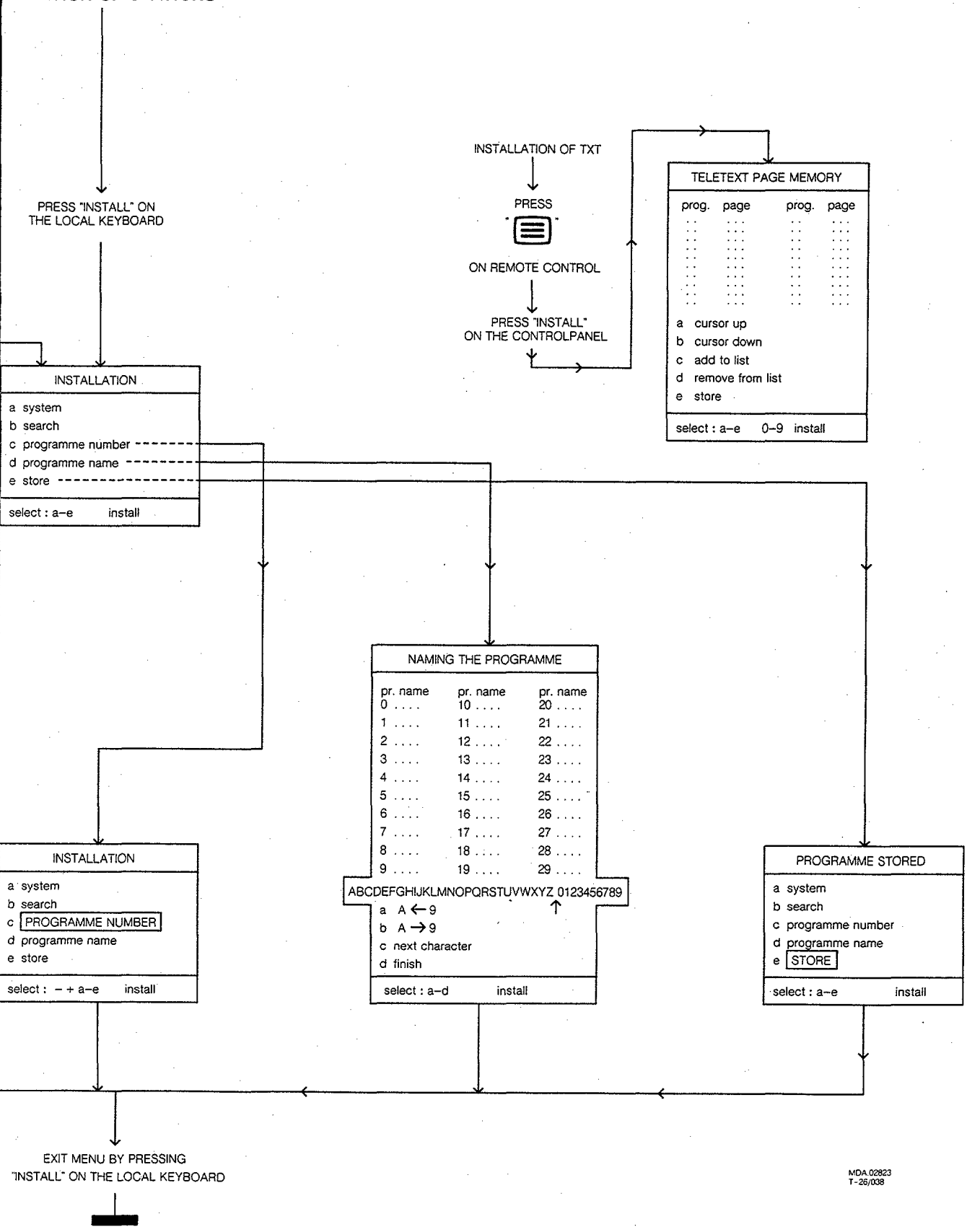
List of menus



TALLATION OF STATIONS



MDA.02823
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Electrical partslists

LARGE SIGNAL PANEL

	4822 265 40469	6P female gold plated
	4822 265 40472	10P female gold plated
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 265 40818	8P male
	4822 264 40207	3P male
	4822 265 40421	6P male
	4822 265 30389	2P male degaussing
	4822 265 40596	2P male mains
	4822 265 20509	2P male
	4822 265 20512	2P male green
	4822 265 20511	2P male bleu
	4822 267 50591	6P male gold plated
	4822 264 50149	10P male gold plated

Various parts

	4822 492 70143	spring 10 X 33 MM
	4822 492 62076	spring fix transistor
	4822 492 70788	spring fix IC
	4822 492 70789	spring fix transistor
	4822 492 70789	spring fix transistor
	4822 492 70789	spring fix transistor
	4822 276 12998	mains switch
	4822 256 30274	fuse holder
	4822 290 60812	socket for ext. loudspeakers
	4822 276 13014	switch loudsp. ON/OFF
	4822 320 11086	focus cable
	4822 320 20162	EHT cable
1200	4822 070 32502	fuse T2,5A
1240	4822 253 10052	fuse T1,0A
1250	4822 071 52501	fuse T0,25mA
1536	4822 071 52002	fuse T2A

2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2012	4822 122 32927	220nF
2013	4822 122 32927	220nF
2015	4822 124 42109	22µF 10% 50V
2016	4822 124 42109	22µF 10% 50V
2017	4822 124 40849	330µF 20% 16V
2018	4822 122 31797	22nF 10% 63V
2019	5322 122 32261	4,7nF 10% 100V
2020	5322 122 32261	4,7nF 10% 100V
2021	5322 122 32261	4,7nF 10% 100V
2022	5322 122 32261	4,7nF 10% 100V
2023	5322 122 33446	3,3nF 10% 63V
2024	5322 122 33446	3,3nF 10% 63V
2026	4822 122 32927	220nF
2027	4822 122 32927	220nF
2029	4822 122 32927	220nF
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2038	4822 122 31644	2,2nF 10% 63V
2042	4822 122 32927	220nF
2043	4822 122 32927	220nF
2046	4822 122 32927	220nF
2047	4822 122 32927	220nF
2050	4822 124 42108	33µF 20% 16V
2051	4822 124 42108	33µF 20% 16V
2056	4822 122 31773	560pF 5% 50V
2057	4822 122 31773	560pF 5% 50V

2060	4822 122 31773	560pF 5% 50V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 41578	6,8µF 20% 50V
2071	4822 124 40272	33µF 20% 16V
2072	4822 124 40178	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2200	4822 121 43819	680nF 10% 250VAC
2203	4822 121 40487	100nF 10% 400V
2210	4822 122 33802	2,2nF 10% 1kV
2211	4822 122 33802	2,2nF 10% 1kV
2214	4822 124 23492	220µF 50% 385V
2215	4822 122 33665	3,3nF 20% 125V
2216	4822 126 10202	1,5nF 10% 2kV
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 21511	2200µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 21511	2200µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2236	4822 124 23488	1000µF 20% 35V
2237	4822 122 33708	2,2nF 10% 1kV
2238	4822 124 22583	47µF 160V
2239	4822 124 40193	68µF 20% 16V
2254	4822 126 11158	120pF 2% 500V
2255	4822 122 32142	270pF 5% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 122 31727	470pF 5% 63V
2261	5322 124 21189	100µF 20% 40V
2262	4822 122 31727	470pF 5% 63V
2263	4822 124 40849	330µF 20% 16V
2270	4822 124 40178	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 5% 63V
2303	4822 122 31808	150pF 10% 50V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 43047	1µF 10% 63V
2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF +-0,5pF 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	4822 124 40272	33µF 20% 16V
2380	4822 122 31797	22nF 10% 63V
2381	4822 122 31797	22nF 10% 63V
2400	4822 122 31772	47pF 5% 50V
2401	4822 122 33496	100nF 10% 63V
2402	4822 124 41576	2,2µF 20% 50V
2403	4822 124 41678	22µF 20% 25V
2404	4822 124 40435	10µF 20% 50V
2405	4822 122 33496	100nF 10% 63V
2406	4822 121 42937	2,7nF 1% 250V
2407	5322 122 33446	3,3nF 10% 63V
2408	4822 122 30091	390pF 10% 100V
2409	4822 122 31797	22nF 10% 63V
2410	5322 121 42661	330nF 5% 63V
2411	5322 121 42661	330nF 5% 63V
2415	4822 122 33496	100nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2420	4822 122 31772	47pF 5% 50V
2421	4822 122 33496	100nF 10% 63V
2422	4822 122 33496	100nF 10% 63V
2423	4822 122 32442	10nF 10% 50V
2424	4822 121 51565	4,7nF 1% 250V
2425	4822 124 41577	4,7µF 20% 50V
2426	4822 122 32442	10nF 10% 50V
2427	4822 122 31797	22nF 10% 63V
2428	4822 122 33496	100nF 10% 63V
2429	4822 122 33496	100nF 10% 63V
2445	4822 122 31974	820pF 10% 63V
2446	4822 122 32999	2,2N 5% 63V

2450	4822 122 32442	10nF 10% 50V
2451	4822 122 31746	1000pF 5% 50V
2452	4822 124 41716	220µF 20% 35V
2455	4822 122 31771	390pF 5% 50V
2456	5322 124 41743	1500µF 20% 35V
2457	4822 121 43047	1µF 10% 63V
2457	4822 124 41576	2,2µF 20% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 32891	68nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 40435	10µF 20% 50V
2502	4822 121 41689	100nF 10% 250V
2503	4822 122 31169	1,5nF 10% 500V
2504	4822 126 11254	330pF 10% 2kV
2504	4822 126 11136	470pF 10% 2kV
2510	4822 122 30057	2,7nF 10% 100V
2511	4822 124 41739	47µF 20% 160V
2512	4822 124 40435	10µF 20% 50V
2513	4822 124 40435	10µF 20% 50V
2517	4822 122 32585	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2519	4822 124 41831	1µF 20% 160V
2520	4822 121 43844	330nF 5% 250V
2520	4822 121 51527	390nF 5% 250V
2521	4822 121 51528	470nF 5% 250V
2521	4822 121 51563	560nF 5% 250V
2521	4822 121 43397	680nF 5% 250V
2523	4822 122 33382	9,1nF 5% 2kV
2523	5322 121 41603	10nF 5% 2kV
2524	4822 121 43845	18nF 5% 400V
2524	4822 121 51564	24nF 5% 400V
2528	4822 121 40336	47nF 10% 250V
2529	4822 124 23491	0,47µF 20% 50V
2530	5322 122 33446	3,3nF 10% 63V
2534	4822 122 33708	2,2nF 10% 1kV
2535	4822 124 23488	1000µF 20% 35V
2536	4822 122 32585	470pF 10% 500V
2537	4822 124 40184	1000µF 20% 10V
2541	4822 124 23489	33µF 20% 25V
2542	4822 124 22466	1µF 20% 50V
2543	4822 124 23495	10µF 20% 25V
2551	4822 124 23496	150µF 20% 10V
2600	4822 124 22427	47µF 20% 35V
2601	4822 122 33608	39nF 10% 63V
2604	4822 122 31965	220pF 5% 63V
2604	4822 122 31775	680pF 5% 50V
2604	4822 122 32765	820pF 10% 63V
2604	4822 122 32153	1,8nF 10% 63V
2605	4822 122 32566	3,9nF 10% 63V
2605	4822 122 31916	5,6nF 10% 63V
2605	4822 122 32856	8,2nF 10% 63V
2605	4822 122 32442	10nF 50V
2606	4822 122 33498	2,7nF 10% 63V
2606	5322 122 33446	3,3nF 10% 63V
2606	4822 126 11255	12nF 5% 50V
2609	4822 121 41854	150nF 5% 63V
2610	4822 124 41576	2,2µF 20% 50V
2611	4822 124 41576	2,2µF 20% 50V
2613	4822 122 31773	56opF 5% 50V
2613	5322 122 33446	3,3nF 10% 63V
2614	5322 122 32838	82nF 10% 63V

3000	4822 051 10163	16k 2% 0,25W
3001	4822 051 10163	16k 2% 0,25W
3003	4822 051 10333	33k 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3008	4822 051 10104	100k 2% 0,25W
3009	4822 051 10224	220k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3016	4822 052 10828	8Ω2 5% 0,33W
3019	4822 052 10828	8Ω2 5% 0,33W
3020	4822 052 10828	8Ω2 5% 0,33W

LARGE SIGNAL PANEL

3023	4822 051 10333	33k 2% 0,25W	
3024	4822 051 10333	33k 2% 0,25W	
3027	4822 051 10103	10k 2% 0,25W	
3028	4822 051 10103	10k 2% 0,25W	
3029	4822 051 10123	12k 2% 0,25W	
3030	4822 051 10123	12k 2% 0,25W	
3031	4822 051 10102	1k 2% 0,25W	
3032	4822 051 10102	1k 2% 0,25W	
3033	4822 116 52244	15k 5% 0,5W	
3034	4822 051 10472	4k7 2% 0,25W	
3035	4822 051 10153	15k 2% 0,25W	
3036	4822 051 10152	1k5 2% 0,25W	
3037	4822 051 10152	1k5 2% 0,25W	
3040	4822 051 10273	27k 2% 0,25W	
3041	4822 051 10152	1k5 2% 0,25W	
3044	4822 051 10221	220Ω 2% 0,25W	
3050	4822 051 10103	10k 2% 0,25W	
3051	4822 051 10203	20k 2% 0,25W	
3052	4822 051 10472	4k7 2% 0,25W	
3053	4822 051 10472	4k7 2% 0,25W	
3054	4822 110 42205	4M7 5% 0,5W	
3060	4822 051 10109	10Ω 2% 0,25W	
3065	4822 051 10183	18k 2% 0,25W	
3066	4822 051 10183	18k 2% 0,25W	
3067	4822 051 10102	1k 2% 0,25W	
3068	4822 116 52207	1k2 5% 0,5W	
3201	4822 110 42205	4M7 5% 0,5W	
3202	4822 110 42205	4M7 5% 0,5W	
3204	4822 116 40033	NTC/PTC	
3204	4822 116 40138	DUAL PTC	
3205	4822 116 30333	NTC	
3209	4822 113 80384	1Ω5 10% 7W	
3210	4822 116 52239	120k 5% 0,5W	
3211	4822 116 52239	120k 5% 0,5W	
3212	4822 116 52234	100k 5% 0,5W	
3213	4822 051 10104	100k 2% 0,25W	
3215	4822 051 10472	4k7 2% 0,25W	
3216	4822 115 90309	56Ω 10% 5W	
3240	4822 116 52234	100k 5% 0,5W	
3241	4822 113 80557	3Ω9 10% 5W	
3242	4822 051 10122	1k2 2% 0,25W	
3243	4822 116 52226	560Ω 5% 0,5W	
3244	4822 116 52211	150Ω 5% 0,5W	
3245	4822 116 52226	560Ω 5% 0,5W	
3247	4822 051 20222	2k2 5% 0,1W	
3248	4822 051 20222	2k2 5% 0,1W	
3249	4822 116 52265	270k 5% 0,5W	
3250	4822 116 52199	68Ω 5% 0,5W	
3251	4822 051 10102	1k 2% 0,25W	
3252	4822 116 52265	270k 5% 0,5W	
3253	4822 116 82738	10k 10%	
3255	4822 116 52243	1k5 5% 0,5W	
3266	4822 051 10101	100Ω 2% 0,25W	
3267	4822 051 10101	100Ω 2% 0,25W	
3268	4822 053 11689	68Ω 5% 2W	
3270	4822 051 10008	jumper	
3271	4822 053 10399	39Ω 5% 1W	
3272	4822 116 90536	120Ω 1% 0,125W	
3273	4822 051 10472	4k7 2% 0,25W	
3274	4822 051 10102	1k 2% 0,25W	
3275	4822 116 52206	120Ω 5% 0,5W	
3298	4822 051 10229	22Ω 2% 0,25W	
3298	4822 051 10279	27Ω 2% 0,25W	
3298	4822 051 10339	33Ω 2% 0,25W	
3298	4822 051 10399	39Ω 2% 0,25W	
3300	4822 053 10753	75k 5% 1W	
3304	4822 051 10473	47k 2% 0,25W	
3305	4822 051 10392	3k9 2% 0,25W	
3306	4822 116 52262	240k 5% 0,5W	
3308	4822 053 12151	150Ω 5% 3W	
3309	4822 051 10103	10k 2% 0,25W	
3310	4822 050 11109	11Ω 1% 0,4W	
3311	4822 051 10471	470Ω 2% 0,25W	
3312	4822 051 10101	100Ω 2% 0,25W	
3313	4822 050 11109	11Ω 1% 0,4W	
3314	4822 116 52223	430Ω 5% 0,5W	
3315	4822 116 52223	430Ω 5% 0,5W	
3317	4822 051 10682	6k8 2% 0,25W	
3320	4822 051 10471	470Ω 2% 0,25W	
3321	4822 051 10471	470Ω 2% 0,25W	
3322	4822 051 10471	470Ω 2% 0,25W	
3331	4822 116 52267	30k 5% 0,5W	
3332	4822 116 52233	10k 5% 0,5W	
3351	4822 052 11279	27Ω 5% 0,5W	
3356	4822 051 10102	1k 2% 0,25W	
3357	4822 050 11102	1k1 1% 0,4W	
3358	4822 116 52182	15Ω 5% 0,5W	
3360	4822 051 10122	1k2 2% 0,25W	
3362	4822 051 10151	150Ω 2% 0,25W	
3364	4822 051 10471	470Ω 2% 0,25W	
3365	4822 051 10221	220Ω 2% 0,25W	
3366	4822 051 10221	220Ω 2% 0,25W	
3368	4822 116 52226	560Ω 5% 0,5W	
3369	4822 116 52226	560Ω 5% 0,5W	
3370	4822 051 10332	3k3 2% 0,25W	
3371	4822 100 11348	1k 30% LIN	
3372	4822 051 10561	560Ω 2% 0,25W	
3374	4822 116 52301	75k 5% 0,5W	
3375	5322 111 90282	2k4 5% 0,25W	
3376	4822 051 10101	100Ω 2% 0,25W	
3378	4822 051 10101	100Ω 2% 0,25W	
3380	4822 051 10152	1k5 2% 0,25W	
3381	4822 051 10152	1k5 2% 0,25W	
3383	4822 051 20222	2k2 5% 0,1W	
3384	4822 051 10103	10k 2% 0,25W	
3385	4822 116 52257	22k 5% 0,5W	
3386	4822 051 10103	10k 2% 0,25W	
3400	4822 051 10332	3k3 2% 0,25W	
3402	4822 051 10562	5k6 2% 0,25W	
3403	4822 051 10229	22Ω 2% 0,25W	
3404	4822 051 10821	820Ω 2% 0,25W	
3405	4822 051 10303	30k 2% 0,25W	
3406	4822 100 11483	10k 30% LIN 0,1W	
3407	4822 051 10331	330Ω 2% 0,25W	
3408	4822 051 10333	33k 2% 0,25W	
3409	4822 116 52258	220k 5% 0,5W	
3409	4822 116 52262	240k 5% 0,5W	
3410	4822 100 11163	100k 30% LIN 0,1W	
3411	4822 051 10623	62k 2% 0,25W	
3411	4822 051 10683	68k 2% 0,25W	
3411	4822 051 10823	82k 2% 0,25W	
3413	4822 051 10101	100Ω 2% 0,25W	
3413	4822 051 10185	1M8 5% 0,25W	
3414	4822 051 10154	150k 2% 0,25W	
3415	4822 100 11392	47k 30% LIN	
3416	4822 116 52278	390k 5% 0,5W	
3417	4822 116 52256	2k2 5% 0,5W	
3418	4822 051 10271	270Ω 2% 0,25W	
3419	4822 052 10189	18Ω 5% 0,33W	
3420	4822 116 52235	1M 5% 0,5W	
3420	4822 116 82737	2M7 5%	
3421	4822 051 10103	10k 2% 0,25W	
3424	4822 051 10221	220Ω 2% 0,25W	
3425	4822 051 10822	8k2 2% 0,25W	
3427	4822 051 10332	3k3 2% 0,25W	
3428	4822 116 52271	33k 5% 0,5W	
3429	4822 116 52289	5k6 5% 0,5W	
3430	4822 050 11203	12k 1% 0,4W	
3431	4822 051 10563	56k 2% 0,25W	
3432	4822 051 10122	1k2 2% 0,25W	
3434	4822 100 11642	47k 30% LIN	
3435	4822 051 10124	120k 2% 0,25W	
3436	4822 051 10152	1k5 2% 0,25W	
3437	4822 051 10471	470Ω 2% 0,25W	
3438	4822 116 52204	1k 5% 0,5W	
3445	4822 051 10105	1M 5% 0,25W	
3446	4822 116 52251	18k 5% 0,5W	
3447	4822 116 52233	10k 5% 0,5W	
3450	4822 051 10432	4k3 2% 0,25W	
3451	4822 051 10432	4k3 2% 0,25W	
3452	4822 116 52227	620Ω 5% 0,5W	
3454	4822 116 52227	620Ω 5% 0,5W	
3455	4822 051 10392	3k9 2% 0,25W	
3455	4822 051 10472	4k7 2% 0,25W	
3456	4822 051 10183	18k 2% 0,25W	
3456	4822 051 10104	100k 2% 0,25W	
3456	4822 051 10114	110k 2% 0,25W	
3457	4822 051 10822	8k2 2% 0,25W	
3457	4822 051 10153	15k 2% 0,25W	
3458	4822 116 80176	1Ω 5% 0,5W	
3459	4822 116 80176	1Ω 5% 0,5W	
3461	5322 116 82222	1Ω2 5%	
3462	5322 116 82222	1Ω2 5%	
3463	4822 116 82739	1Ω3 5% 0,5W	
3465	4822 051 10681	680Ω 2% 0,25W	
3466	4822 051 10272	2k7 2% 0,25W	
3467	4822 100 20166	10k 30% LIN 0,1W	
3468	4822 053 12221	220Ω 5% 3W	
3468	4822 053 10331	330Ω 5% 3W	
3469	4822 051 10681	680Ω 2% 0,25W	
3469	4822 051 10272	2k7 2% 0,25W	
3469	4822 051 10472	4k7 2% 0,25W	
3473	4822 116 52253	2k 5% 0,5W	
3474	4822 051 10683	68k 2% 0,25W	
3480	4822 116 52234	100k 5% 0,5W	
3481	4822 051 10102	1k 2% 0,25W	
3482	4822 051 10229	22Ω 2% 0,25W	
3500	4822 116 80176	1Ω 5% 0,5W	
3501	4822 116 52271	33k 5% 0,5W	
3502	4822 116 52238	12k 5% 0,5W	
3503	4822 116 52238	12k 5% 0,5W	
3505	4822 116 52199	68Ω 5% 0,5W	
3508	4822 116 53418	2k7 10%	
3508	4822 116 53568	3k3 10% 5W	
3508	4822 116 82379	3k9 10% 5W	
3509	4822 116 52267	30k 5% 0,5W	
3510	4822 053 12151	150Ω 5% 3W	
3510	4822 053 12221	220Ω 5% 3W	
3512	4822 051 10331	330Ω 2% 0,25W	
3513	4822 100 11319	4k7 30% LIN	
3514	4822 116 52206	120Ω 5% 0,5W	
3515	4822 052 10108	1Ω 5% 0,33W	
3516	4822 052 10108	1Ω 5% 0,33W	
3517	4822 052 11688	6Ω8 5% 0,5W	
3518	4822 116 52267	30k 5% 0,5W	
3519	4822 116 52267	30k 5% 0,5W	
3520	4822 052 11152	1k5 5% 0,5W	
3521	4822 052 11152	1k5 5% 0,5W	
3523	4822 116 52233	10k 5% 0,5W	
3528	4822 116 52241	13k 5% 0,5W	
3529	4822 051 10104	100k 2% 0,25W	
3530	4822 051 10474	470k 2% 0,25W	
3531	4822 116 52274	36k 5% 0,5W	
3532	4822 116 52211	150Ω 5% 0,5W	
3533	4822 116 52211	150Ω 5% 0,5W	
3534	4822 052 11278	2Ω7 5% 0,5W	
3535	4822 052 11278	2Ω7 5% 0,5W	
3536	4822 116 52215	220Ω 5% 0,5W	
3537	4822 116 52206	120Ω 5% 0,5W	
3538	4822 116 52224	470Ω 5% 0,5W	
3538	4822 116 52204	1k 5% 0,5W	
3538	4822 116 52256	2k2 5% 0,5W	
3540	4822 116 52267	30k 5% 0,5W	
3541	4822 116 52285	470k 5% 0,5W	
3542	4822 051 10913	91k 2% 0,25W	
3542	4822 051 10104	100k 2% 0,25W	
3543	5322 111 90282	2k4 5% 0,25W	
3543	4822 051 10272	2k7 2% 0,25W	
3544	4822 051 10393	39k 2% 0,25W	
3545	4822 116 52208	130Ω 5% 0,5W	
3546	4822 051 10183	18k 2% 0,25W	
3550	4822 116 52209	1k3 5% 0,5W	

LARGE SIGNAL PANEL

3601	4822 051 10104	100k 2% 0,25W
3602	4822 100 20166	10k 30% LIN 0,1W
3603	4822 051 10103	10k 2% 0,25W
3603	4822 051 20183	18k 5% 0,1W
3604	4822 051 10564	560k 2% 0,25W
3604	4822 051 10754	750k 2% 0,25W
3605	4822 051 10203	20k 2% 0,25W
3605	4822 051 10513	51k 2% 0,25W
3605	4822 116 81202	62k 1% 0,125W
3606	4822 051 10223	22k 2% 0,25W
3607	4822 100 11213	22k 30% LIN
3608	4822 051 10102	1k 2% 0,25W
3609	4822 051 10473	47k 2% 0,25W
3610	4822 051 10472	4k7 2% 0,25W
3611	4822 051 20222	2k2 5% 0,1W
3612	4822 116 52286	5k1 5% 0,5W
3614	4822 051 10151	150Ω 2% 0,25W
3615	4822 116 52224	470Ω 5% 0,5W
3616	4822 051 10332	3k3 2% 0,25W
3617	4822 051 20222	2k2 5% 0,1W
3618	4822 051 10104	100k 2% 0,25W
3619	4822 051 20222	2k2 5% 0,1W
3620	4822 051 10622	6k2 2% 0,25W
3621	4822 051 10114	110k 2% 0,25W
3622	4822 116 80176	1Ω 5% 0,5W
3624	4822 116 52215	220Ω 5% 0,5W
3625	4822 116 52215	220Ω 5% 0,5W
3626	4822 116 52297	68k 5% 0,5W
3626	4822 116 52304	82k 5% 0,5W
3626	4822 116 52239	120k 5% 0,5W
3626	4822 116 52242	130k 5% 0,5W

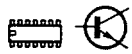
Jumpers

4000	4822 051 10008	jumper
4001	4822 051 10008	jumper
4005	4822 051 10008	jumper
4006	4822 051 10008	jumper
4014	4822 051 10008	jumper
4400	4822 051 10008	jumper
4410	4822 051 10008	jumper
4412	4822 051 10008	jumper
4415	4822 051 10008	jumper
4508	4822 051 10008	jumper

5202	4822 158 30224	TRANSF,ASSY CU20D3
5230	4822 146 30957	SOPS
5231	4822 526 10494	ferrite bead
5233	4822 526 10494	ferrite bead
5235	4822 526 10494	ferrite bead
5237	4822 526 10494	ferrite bead
5241	4822 157 52505	33µH 10%
5255	4822 146 30955	transf.assy CU15B20
5260	4822 526 10494	ferrite bead
5262	4822 526 10494	ferrite bead
5308	4822 157 62826	270µH 10%
5310	4822 157 51216	5,6µH 10%
5381	4822 157 52279	33µH 10%
5503	4822 148 80901	TRANSFORMER
5510	4822 157 62825	82µH 10%
5511	4822 157 52407	39MU 7,5%
5514	4822 157 53861	CU15
5520	4822 157 62937	coil HT 21"
5520	4822 157 52688	AT4042/92
5520	4822 156 50086	AT4042/92B 33"
5521	4822 157 62938	LINEARITY 21"
5521	4822 157 62827	LINEARITY
5526	4822 157 62828	EAST-WEST
5534	4822 158 10551	27µH 7,5%
5543	4822 158 10551	27µH 7,5%
5555	4822 140 10412	L.O.T. 21"
5555	4822 140 10408	L.O.T.

6000	4822 130 80446	LL4148
6001	4822 130 81139	LLZ-C3V3
6002	4822 130 81139	LLZ-C3V3
6008	4822 209 73095	P4kE30C-7000
6010	4822 130 80446	LL4148
6011	4822 130 80446	LL4148
6012	4822 130 80446	LL4148
6014	4822 130 80446	LL4148
6016	4822 130 80446	LL4148
6020	4822 130 30621	1N4148
6021	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6210	4822 130 33887	GP15J-16
6211	4822 130 33887	GP15J-16
6212	4822 130 33887	GP15J-16
6213	4822 130 33887	GP15J-16
6216	4822 130 42606	BYD33J
6231	4822 130 80791	BYV28-200/20
6233	4822 130 80791	BYV28-200/20
6235	4822 130 81104	MA689
6237	4822 130 80572	RGP30J-L7004
6238	4822 130 80572	RGP30J-L7004
6246	4822 130 82347	LLZ-F6V8
6251	4822 130 80954	LLZ-C5V6
6260	4822 130 80446	LL4148
6262	4822 130 42488	BYD33D
6266	4822 130 34278	BZX79-F6V8
6272	4822 130 34173	BZX55-B5V6
6280	4822 130 30621	1N4148
6302	4822 130 80446	LL4148
6303	4822 130 80446	LL4148
6304	4822 130 80446	LL4148
6308	4822 130 42488	BYD33D
6312	4822 130 42488	BYD33D
6315	4822 130 80446	LL4148
6318	4822 130 80446	LL4148
6319	4822 130 34173	BZX79-C5V6
6331	4822 130 80446	LL4148
6349	4822 130 80446	LL4148
6350	4822 130 80446	LL4148
6351	4822 130 80446	LL4148
6352	4822 130 80446	LL4148
6353	4822 130 80446	LL4148
6355	4822 130 80446	LL4148
6356	4822 130 82345	LLZ-C22
6357	4822 130 80446	LL4148
6370	4822 130 81512	LLZ-C6V2
6371	4822 130 80446	LL4148
6372	4822 130 80446	LL4148
6373	4822 130 80954	LLZ-C5V6
6375	4822 130 80446	LL4148
6376	4822 130 80922	LLZ-C18
6403	4822 130 80446	LL4148
6404	4822 130 30621	1N4148
6417	4822 130 81223	LLZ-C2V4
6451	4822 130 34382	BZX79-C8V2
6452	4822 130 42488	BYD33D
6465	4822 130 30621	1N4148
6466	4822 130 30621	1N4148
6480	4822 130 31554	BZX79-C4V3
6501	4822 130 42488	BYD33D
6515	4822 130 80446	LL4148
6516	4822 130 80446	LL4148
6517	4822 130 42488	BYD33D
6519	4822 130 32896	BYD33M
6522	4822 130 41275	BY228/20
6525	4822 130 80572	RGP30J-L7004
6529	4822 130 34329	BZX79-C43
6534	4822 130 82353	BYD34G
6537	4822 130 80572	RGP30J-L7004
6540	4822 130 80446	LL4148
6541	4822 130 81222	LLZ-C15

6541	4822 130 80922	BZV55-C18
6542	4822 130 30842	BAV21
6551	4822 130 34278	BZX79-B6V8
6601	4822 130 42488	BYD33D



7000	4822 209 73311	TDA1521Q/N4
7002	4822 209 83163	LM833N
7003	4822 130 61207	BC848
7004	4822 130 61207	BC848
7005	5322 130 42136	BC848C
7006	5322 130 42136	BC848C
7007	4822 130 61207	BC848
7008	4822 130 61207	BC848
7009	4822 209 83163	LM833N
7010	5322 130 42012	BC858
7011	4822 209 63296	TDA2613Q
7012	4822 130 61207	BC848
7201	4822 130 42513	BC858C
7216	4822 130 43919	BUT12AF
7241	4822 130 61003	BD944F
7242	5322 130 41981	BC848A
7243	5322 130 41981	BC848A
7250	4822 130 62509	BUX85F
7251	4822 130 61207	BC848
7268	4822 130 44121	BC338
7270	4822 130 40823	BD135
7272	4822 130 61207	BC848
7273	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	5322 130 44647	BC368
7318	4822 130 42615	BC817-40
7320	4822 130 80891	CNX83A
7360	4822 130 42513	BC858C
7369	5322 130 42755	BC847C
7370	5322 130 42136	BC848C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C
7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7385	5322 130 42136	BC848C
7400	4822 209 63297	TDA2579B/N1
7401	4822 209 63299	TDA2595/V9
7402	5322 130 42136	BC848C
7403	4822 130 42513	BC858C
7417	4822 130 42513	BC858C
7445	5322 130 42136	BC848C
7446	5322 130 42136	BC848C
7450	4822 209 73308	TDA3654Q/N3
7451	5322 130 42012	BC858
7469	4822 130 44104	BC328
7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 42159	TBF819
7504	4822 130 61265	BU508AF
7512	4822 130 44196	BC548C
7513	5322 130 60068	BC558C
7530	4822 130 61233	BC857
7540	5322 130 42136	BC848C
7541	5322 130 42136	BC848C
7542	4822 130 42513	BC858C
7550	4822 130 61705	2SD1509
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44196	BC548C
7610	4822 130 60111	2SA1359

SMALL SIGNAL PANEL

	4822 265 40252	7P male
	4822 265 40253	8P
	4822 265 40253	8P
	4822 265 40253	8P
	4822 265 41086	9P male
	4822 265 41082	10P
	4822 290 40295	7P
	4822 267 40648	5P male gold plated
	4822 264 50149	10P male gold plated
	4822 265 30828	5P male

Various parts

	4822 267 20411	socket SCART + 2x CINCH
	4822 267 51058	socket SCART
	4822 267 20409	socket CINCH+SVHS
	4822 267 20408	socket HEADPH+ CINCH+SVHS
	4822 218 20986	keyboard
	4822 255 40901	socket 40 POLE
1100	4822 212 23281	IR receiver
1160	4822 210 10409	FQ816ME/IF
1160	4822 210 10415	FQ816/IF
1160	4822 210 10416	FQ816MF/IF
1160	4822 210 10412	FQ844
1231	4822 242 72569	filter 4,43MHz
1379	4822 242 70736	crystal 7,159 090 MHz
1380	4822 242 70304	crystal 8,867 238 MHz
1602	4822 242 73857	crystal 10MHz

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2100	4822 124 40684	150µF 20% 6,3V
2105	4822 122 31797	22nF 10% 63V
2115	4822 122 32893	100nF 80% 50V
2118	4822 122 31797	22nF 10% 63V
2119	4822 122 31797	22nF 10% 63V
2120	4822 122 32863	22nF 80% 50V
2121	5322 122 31647	1nF 10% 63V
2122	4822 122 32442	10nF 50V
2123	4822 122 32927	220nF
2126	4822 122 31797	22nF 10% 63V
2127	4822 122 31797	22nF 10% 63V
2129	4822 122 31797	22nF 10% 63V
2130	4822 122 31797	22nF 10% 63V
2132	4822 122 32863	22nF 80% 50V
2137	4822 122 31971	10pF 10% 50V
2138	4822 124 40193	68µF 20% 16V
2160	4822 124 40849	330µF 20% 16V
2161	4822 122 33496	100nF 10% 63V
2163	4822 122 33496	100nF 10% 63V
2164	4822 122 33496	100nF 10% 63V
2166	4822 124 40684	150µF 20% 6,3V
2170	4822 124 40195	150µF 20% 16V
2171	4822 122 32862	10nF 80% 50V
2172	4822 124 41506	47µF 20% 16V
2188	4822 122 32863	22nF 80% 50V
2193	4822 122 32153	1,8nF 10% 63V
2194	4822 122 32153	1,8nF 10% 63V
2196	4822 124 22606	68µF 20% 16V
2197	4822 124 22606	68µF 20% 16V
2216	4822 122 32893	100nF 80% 50V
2219	4822 122 32927	220nF
2224	4822 122 32927	220nF
2225	4822 124 41554	220µF 20% 10V
2226	4822 121 42408	220nF 5% 63V
2228	4822 122 32927	220nF
2234	4822 121 42408	220nF 5% 63V

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2240	4822 122 32927	220nF
2241	4822 121 42408	220nF 5% 63V
2250	4822 122 32893	100nF 80% 50V
2251	4822 122 32893	100nF 80% 50V
2254	4822 122 32927	220nF
2255	4822 124 41643	100µF 20% 16V
2258	4822 122 31765	100pF 5% 50V
2260	4822 122 32893	100nF 80% 50V
2274	4822 122 32862	10nF 80% 50V
2301	5322 122 31647	1nF 10% 63V
2305	4822 122 32444	33pF 5% 50V
2306	4822 122 31772	47pF 5% 50V
2310	4822 122 31961	68pF 5% 63V
2311	4822 122 31765	100pF 5% 50V
2311	4822 122 31808	150pF 10% 50V
2312	4822 122 32863	22nF 80% 50V
2318	4822 121 42408	220nF 5% 63V
2320	4822 121 51412	560nF 10% 63V
2322	4822 121 51412	560nF 10% 63V
2324	4822 122 32863	22nF 80% 50V
2326	4822 122 31765	100pF 5% 50V
2327	4822 122 31765	100pF 5% 50V
2328	4822 122 31765	100pF 5% 50V
2330	5322 122 31842	330pF 5% 63V
2331	5322 122 31842	330pF 5% 63V
2338	4822 122 32444	33pF 5% 50V
2338	4822 122 31972	39pF 5% 50V
2339	4822 122 31772	47pF 5% 50V
2342	4822 122 31825	27pF 10% 50V
2343	4822 122 31727	470pF 5% 63V
2344	4822 122 31775	680pF 5% 50V
2345	4822 122 31807	1200pF 5% 50V
2346	4822 122 32504	15pF 5% 50V
2346	4822 122 32482	22pF 5% 63V
2347	5322 122 31647	1nF 10% 63V
2353	4822 122 32862	10nF 80% 50V
2360	4822 124 40272	33µF 20% 16V
2361	4822 124 40849	330µF 20% 16V
2365	4822 122 32772	180pF 2% 100V
2366	4822 122 32863	22nF 80% 50V
2367	4822 122 32862	10nF 80% 50V
2368	4822 122 32862	10nF 80% 50V
2369	4822 122 31825	27pF 10% 50V
2371	4822 122 31825	27pF 10% 50V
2372	4822 122 31965	220pF 5% 63V
2373	4822 122 31965	220pF 5% 63V
2374	4822 122 32863	22nF 80% 50V
2375	4822 122 32863	22nF 80% 50V
2376	5322 122 31641	47nF 50V
2377	5322 121 42661	330nF 5% 63V
2378	4822 122 32893	100nF 80% 50V
2379	4822 125 50207	33pF trim.
2380	4822 125 50207	33pF trim
2381	5322 121 42661	330nF 5% 63V
2382	5322 122 31647	1nF 10% 63V
2383	4822 122 32442	10nF 50V
2384	5322 122 31647	1nF 10% 63V
2385	4822 122 32442	10nF 50V
2386	4822 122 32862	10nF 80% 50V
2387	4822 124 40435	10µF 20% 50V
2388	4822 122 31773	560pF 5% 50V
2390	4822 122 32863	22nF 80% 50V
2391	4822 122 32863	22nF 80% 50V
2392	4822 122 32863	22nF 80% 50V
2433	4822 122 32863	22nF 80% 50V
2434	4822 122 32863	22nF 80% 50V
2435	4822 122 32863	22nF 80% 50V
2438	4822 122 32863	22nF 80% 50V
2440	4822 122 32863	22nF 80% 50V
2442	4822 122 32863	22nF 80% 50V
2445	4822 122 32893	100nF 80% 50V
2446	4822 122 32893	100nF 80% 50V
2447	4822 122 32893	100nF 80% 50V
2451	5322 121 42661	330nF 5% 63V

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2452	4822 124 40242	1µF 20% 63V
2476	4822 124 40435	10µF 20% 50V
2479	4822 122 32863	22nF 80% 50V
2480	4822 124 40272	33µF 20% 16V
2485	4822 124 40849	330µF 20% 16V
2600	4822 122 32893	100nF 80% 50V
2602	4822 122 32893	100nF 80% 50V
2604	4822 122 32893	100nF 80% 50V
2606	4822 122 32893	100nF 80% 50V
2608	4822 122 32927	220nF
2620	4822 122 33496	100nF 10% 63V
2621	4822 122 33496	100nF 10% 63V
2622	4822 122 33496	100nF 10% 63V
2623	4822 122 33496	100nF 10% 63V
2624	5322 122 31842	330pF 5% 63V
2626	4822 121 42408	220nF 5% 63V
2627	4822 124 41678	22µF 20% 25V
2628	5322 122 31842	330pF 5% 63V
2630	4822 122 32927	220nF
2632	5322 122 31842	330pF 5% 63V
2634	4822 121 42408	220nF 5% 63V
2636	5322 122 31842	330pF 5% 63V
2638	4822 121 42408	220nF 5% 63V
2640	5322 122 31842	330pF 5% 63V
2642	4822 122 32927	220nF
2644	5322 122 31842	330pF 5% 63V
2646	4822 122 32927	220nF
2658	4822 122 31961	68pF 5% 63V
2659	4822 122 31961	68pF 5% 63V
2660	5322 122 31647	1nF 10% 63V
2662	5322 122 31647	1nF 10% 63V
2664	4822 122 32153	1,8nF 10% 63V
2666	4822 122 32153	1,8nF 10% 63V
2680	4822 122 32893	100nF 80% 50V
2682	4822 124 40195	150µF 20% 16V
2684	4822 121 51252	470nF 5% 63V
2686	4822 121 51252	470nF 5% 63V
2688	4822 122 31782	15000pF 10% 50V
2690	4822 122 31782	15000pF 10% 50V
2692	4822 122 31981	33nF +-0,5pF 50V
2694	4822 122 31916	5,6nF 10% 63V
2696	4822 122 31981	33nF +-0,5pF 50V
2698	4822 122 31916	5,6nF 10% 63V
2700	4822 124 40242	1µF 20% 63V
2702	4822 124 40242	1µF 20% 63V
2704	4822 122 31644	2,2nF 10% 63V
2706	4822 124 41678	22µF 20% 25V
2707	4822 122 31784	4,7nF 10% 50V
2714	4822 122 32863	22nF 80% 50V
2716	4822 122 32597	6,8nF 10% 63V
2720	4822 124 41678	22µF 20% 25V
2721	4822 122 31784	4,7nF 10% 50V
2726	4822 122 31644	2,2nF 10% 63V
2727	4822 124 40435	10µF 20% 50V
2728	4822 124 40435	10µF 20% 50V
2734	4822 122 32863	22nF 80% 50V
2736	4822 122 32597	6,8nF 10% 63V

3100	4822 051 10102	1k 2% 0,25W
3101	4822 116 52175	100Ω 5% 0,5W
3104	4822 116 52175	100Ω 5% 0,5W
3105	4822 051 10101	100Ω 2% 0,25W
3115	4822 116 52175	100Ω 5% 0,5W
3117	4822 051 20222	2k2 5% 0,1W
3119	4822 051 20222	2k2 5% 0,1W
3120	4822 051 20222	2k2 5% 0,1W
3121	4822 051 10123	12k 2% 0,25W
3122	4822 051 10472	4k7 2% 0,25W

SMALL SIGNAL PANEL

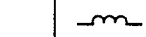
3123	4822 051 10472	4k7 2% 0,25W
3124	4822 051 10101	100Ω 2% 0,25W
3125	4822 051 10101	100Ω 2% 0,25W
3126	4822 051 10101	100Ω 2% 0,25W
3127	4822 051 10101	100Ω 2% 0,25W
3129	4822 116 52175	100Ω 5% 0,5W
3131	4822 116 52175	100Ω 5% 0,5W
3132	4822 116 52175	100Ω 5% 0,5W
3134	4822 116 52175	100Ω 5% 0,5W
3135	4822 051 10101	100Ω 2% 0,25W
3136	4822 051 10101	100Ω 2% 0,25W
3137	4822 116 52191	33Ω 5% 0,5W
3138	4822 116 52175	100Ω 5% 0,5W
3139	4822 116 52175	100Ω 5% 0,5W
3140	4822 116 52204	1k 5% 0,5W
3141	4822 116 52204	1k 5% 0,5W
3142	4822 116 52204	1k 5% 0,5W
3143	4822 116 52204	1k 5% 0,5W
3144	4822 116 52204	1k 5% 0,5W
3145	4822 116 52204	1k 5% 0,5W
3146	4822 116 52204	1k 5% 0,5W
3148	4822 051 10473	47k 2% 0,25W
3149	4822 051 10473	47k 2% 0,25W
3150	4822 051 10473	47k 2% 0,25W
3151	4822 051 10562	5k6 2% 0,25W
3152	4822 051 10103	10k 2% 0,25W
3153	4822 051 10103	10k 2% 0,25W
3154	4822 051 10132	1k3 2% 0,25W
3155	4822 051 10104	100k 2% 0,25W
3156	4822 051 20183	18k 5% 0,1W
3157	4822 116 52204	1k 5% 0,5W
3158	4822 116 52204	1k 5% 0,5W
3159	4822 051 10333	33k 2% 0,25W
3160	4822 052 10758	7Ω5 5% 0,33W
3160	4822 111 30508	10Ω 5% 0,33W
3162	4822 050 27508	7Ω5 1% 0,6W
3163	4822 051 10223	22k 2% 0,25W
3164	4822 051 10101	100Ω 2% 0,25W
3165	4822 051 10101	100Ω 2% 0,25W
3166	4822 052 10568	5Ω6 5% 0,33W
3170	4822 116 82772	3Ω9 5% 0,3W
3171	4822 052 11511	510Ω 5% 0,5W
3172	4822 052 10229	22Ω 5% 0,33W
3175	4822 116 52233	10k 5% 0,5W
3176	4822 116 52234	100k 5% 0,5W
3177	4822 051 10913	91k 2% 0,25W
3178	4822 051 10103	10k 2% 0,25W
3180	4822 116 52224	470Ω 5% 0,5W
3181	4822 051 10822	8k2 2% 0,25W
3182	4822 116 52214	200Ω 5% 0,5W
3183	4822 116 52233	10k 5% 0,5W
3184	4822 116 90536	120Ω 1% 0,125W
3185	4822 051 10471	470Ω 2% 0,25W
3186	4822 116 52256	2k2 5% 0,5W
3187	4822 051 10759	75Ω 2% 0,25W
3188	4822 051 10102	1k 2% 0,25W
3189	4822 051 10223	22k 2% 0,25W
3190	4822 051 10183	18k 2% 0,25W
3191	4822 051 10183	18k 2% 0,25W
3192	4822 116 52233	10k 5% 0,5W
3193	4822 051 10331	330Ω 2% 0,25W
3194	4822 051 10331	330Ω 2% 0,25W
3196	4822 051 10473	47k 2% 0,25W
3197	4822 051 10473	47k 2% 0,25W
3205	4822 051 10759	75Ω 2% 0,25W
3206	4822 051 10759	75Ω 2% 0,25W
3207	4822 051 10759	75Ω 2% 0,25W
3208	4822 051 10101	100Ω 2% 0,25W
3209	4822 051 10101	100Ω 2% 0,25W
3210	4822 051 10101	100Ω 2% 0,25W
3211	4822 116 52217	270Ω 5% 0,5W
3215	4822 051 10689	68Ω 2% 0,25W
3216	4822 052 10159	15Ω 5% 0,33W
3217	4822 116 52224	470Ω 5% 0,5W
3218	4822 051 10471	470Ω 2% 0,25W
3219	4822 051 10471	470Ω 2% 0,25W
3220	4822 051 10471	470Ω 2% 0,25W
3222	4822 116 52217	270Ω 5% 0,5W
3224	4822 051 10759	75Ω 2% 0,25W
3225	4822 116 52219	330Ω 5% 0,5W
3226	4822 051 10152	1k5 2% 0,25W
3227	4822 051 10112	1k1 2% 0,25W
3228	4822 051 10474	470k 2% 0,25W
3229	4822 051 10331	330Ω 2% 0,25W
3230	4822 116 52204	1k 5% 0,5W
3231	4822 051 10681	680Ω 2% 0,25W
3232	4822 051 10102	1k 2% 0,25W
3233	4822 051 10102	1k 2% 0,25W
3234	4822 051 10759	75Ω 2% 0,25W
3235	4822 051 10759	75Ω 2% 0,25W
3237	4822 116 52217	270Ω 5% 0,5W
3238	4822 116 52222	390Ω 5% 0,5W
3239	4822 051 10271	270Ω 2% 0,25W
3240	4822 051 10759	75Ω 2% 0,25W
3241	4822 051 10759	75Ω 2% 0,25W
3253	4822 051 10561	560Ω 2% 0,25W
3254	4822 052 10159	15Ω 5% 0,33W
3255	4822 051 10101	100Ω 2% 0,25W
3256	4822 051 10103	10k 2% 0,25W
3257	4822 051 10103	10k 2% 0,25W
3259	4822 051 10103	10k 2% 0,25W
3260	4822 052 10159	15Ω 5% 0,33W
3261	4822 051 10471	470Ω 2% 0,25W
3262	4822 051 10103	10k 2% 0,25W
3263	4822 051 10689	68Ω 2% 0,25W
3264	4822 051 10471	470Ω 2% 0,25W
3266	4822 051 10103	10k 2% 0,25W
3267	4822 051 10103	10k 2% 0,25W
3285	4822 051 10101	100Ω 2% 0,25W
3286	4822 051 10101	100Ω 2% 0,25W
3300	4822 051 10103	10k 2% 0,25W
3301	4822 051 10332	3k3 2% 0,25W
3303	4822 051 10241	240Ω 2% 0,25W
3304	4822 051 10241	240Ω 2% 0,25W
3305	4822 051 10104	100k 2% 0,25W
3306	4822 051 10241	240Ω 2% 0,25W
3310	4822 116 52207	1k2 5% 0,5W
3311	4822 051 10132	1k3 2% 0,25W
3312	4822 051 10511	510Ω 2% 0,25W
3313	4822 051 10302	3k 2% 0,25W
3314	4822 051 10102	1k 2% 0,25W
3315	4822 051 10103	10k 2% 0,25W
3316	4822 051 10112	1k1 2% 0,25W
3317	4822 116 52233	10k 5% 0,5W
3324	4822 051 10223	22k 2% 0,25W
3325	4822 051 10682	6k8 2% 0,25W
3326	4822 051 10103	10k 2% 0,25W
3327	4822 051 10122	1k2 2% 0,25W
3328	4822 051 10271	270Ω 2% 0,25W
3330	4822 051 10108	1Ω 5% 0,25W
3331	4822 051 10108	1Ω 5% 0,25W
3336	4822 051 10472	4k7 2% 0,25W
3338	4822 051 10391	390Ω 2% 0,25W
3339	4822 051 10391	390Ω 2% 0,25W
3339	4822 051 10153	15k 2% 0,25W
3342	4822 051 20222	2k2 5% 0,1W
3342	4822 051 10472	4k7 2% 0,25W
3344	4822 051 10273	27k 2% 0,25W
3350	4822 116 90536	120Ω 1% 0,125W
3351	4822 051 10472	4k7 2% 0,25W
3353	4822 051 10332	3k3 2% 0,25W
3360	4822 111 30494	2Ω7 5% 0,33W
3361	4822 051 10102	1k 2% 0,25W
3369	4822 051 10331	330Ω 2% 0,25W
3370	4822 100 11391	330Ω LIN,
3371	4822 051 10431	430Ω 2% 0,25W
3372	4822 051 10331	330Ω 2% 0,25W
3376	4822 116 52286	5k1 5% 0,5W
3377	4822 051 10332	3k3 2% 0,25W
3377	4822 051 10103	10k 2% 0,25W
3380	4822 116 52204	1k 5% 0,5W
3383	4822 051 10103	10k 2% 0,25W
3385	4822 051 10105	1M 5% 0,25W
3387	4822 116 52204	1k 5% 0,5W
3389	4822 051 10182	1k8 2% 0,25W
3390	4822 051 10911	910Ω 2% 0,25W
3399	4822 116 80176	1Ω 5% 0,5W
3400	4822 051 10471	470Ω 2% 0,25W
3410	4822 116 52224	470Ω 5% 0,5W
3425	4822 116 52224	470Ω 5% 0,5W
3426	4822 116 52224	470Ω 5% 0,5W
3439	4822 051 10181	180Ω 2% 0,25W
3441	4822 051 10181	180Ω 2% 0,25W
3443	4822 051 10181	180Ω 2% 0,25W
3450	4822 051 20222	2k2 5% 0,1W
3451	4822 051 10432	4k3 2% 0,25W
3453	4822 051 10108	1Ω 5% 0,25W
3454	4822 051 10101	100Ω 2% 0,25W
3455	4822 051 10101	100Ω 2% 0,25W
3456	4822 051 10101	100Ω 2% 0,25W
3465	4822 116 52283	4k7 5% 0,5W
3475	4822 051 10124	120k 2% 0,25W
3476	4822 051 10154	150k 2% 0,25W
3477	4822 116 52264	27k 5% 0,5W
3478	4822 051 10101	100Ω 2% 0,25W
3480	4822 111 30494	2Ω7 5% 0,33W
3481	4822 111 30494	2Ω7 5% 0,33W
3482	4822 116 52223	430Ω 5% 0,5W
3483	4822 116 52175	100Ω 5% 0,5W
3485	4822 051 10682	6k8 2% 0,25W
3486	4822 051 10123	12k 2% 0,25W
3487	4822 051 10682	6k8 2% 0,25W
3489	4822 051 10101	100Ω 2% 0,25W
3492	4822 051 10471	470Ω 2% 0,25W
3600	4822 051 10362	3k6 2% 0,25W
3602	4822 100 11212	2k2 30%
3603	4822 051 10332	3k3 2% 0,25W
3604	4822 051 10182	1k8 2% 0,25W
3605	4822 051 10472	4k7 2% 0,25W
3606	4822 052 10279	27Ω 5% 0,33W
3608	4822 051 10101	100Ω 2% 0,25W
3610	4822 051 10101	100Ω 2% 0,25W
3620	4822 051 10183	18k 2% 0,25W
3622	4822 051 10183	18k 2% 0,25W
3624	4822 051 10102	1k 2% 0,25W
3626	4822 051 10183	18k 2% 0,25W
3628	4822 051 10102	1k 2% 0,25W
3630	4822 051 10183	18k 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3634	4822 051 10183	18k 2% 0,25W
3636	4822 051 10102	1k 2% 0,25W
3638	4822 051 10183	18k 2% 0,25W
3640	4822 051 10102	1k 2% 0,25W
3642	4822 051 10183	18k 2% 0,25W
3644	4822 051 10102	1k 2% 0,25W
3646	4822 051 10183	18k 2% 0,25W
3650	4822 051 10392	3k9 2% 0,25W
3651	4822 051 10123	12k 2% 0,25W
3652	4822 051 10392	3k9 2% 0,25W
3653	4822 051 10123	12k 2% 0,25W
3654	4822 116 52244	15k 5% 0,5W
3660	4822 051 10331	330Ω 2% 0,25W
3662	4822 051 10151	150Ω 2% 0,25W
3664	4822 051 10331	330Ω 2% 0,25W
3665	4822 052 10159	15Ω 5% 0,33W
3666	4822 051 10151	150Ω 2% 0,25W
3668	4822 051 10331	330Ω 2% 0,25W
3672	4822 051 10331	330Ω 2% 0,25W
3680	4822 052 10279	27Ω 5% 0,33W

SMALL SIGNAL PANEL

3682	4822 051 10568	5Ω6 5% 0,25W
3684	4822 116 52175	100Ω 5% 0,5W
3686	4822 116 52175	100Ω 5% 0,5W
3700	4822 116 52263	2k7 5% 0,5W
3702	4822 051 10223	22k 2% 0,25W
3704	4822 051 10102	1k 2% 0,25W
3706	4822 111 30508	10Ω 5% 0,33W
3708	4822 051 10101	100Ω 2% 0,25W
3710	4822 051 20183	18k 5% 0,1W
3712	4822 116 52203	91Ω 5% 0,5W
3713	4822 116 52203	91Ω 5% 0,5W
3714	4822 051 10828	8Ω2 5% 0,25W
3720	4822 111 30508	10Ω 5% 0,33W
3722	4822 116 52263	2k7 5% 0,5W
3724	4822 051 10223	22k 2% 0,25W
3726	4822 051 10102	1k 2% 0,25W
3728	4822 051 10101	100Ω 2% 0,25W
3730	4822 051 20183	18k 5% 0,1W
3732	4822 116 52203	91Ω 5% 0,5W
3733	4822 116 52203	91Ω 5% 0,5W
3734	4822 051 10828	8Ω2 5% 0,25W

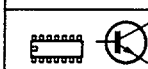
jumpers

4066	4822 051 10008	jumper
4100	4822 051 10008	jumper
4101	4822 051 10008	jumper
4103	4822 051 10008	jumper
4105	4822 051 10008	jumper
4106	4822 051 10008	jumper
4107	4822 051 10008	jumper
4108	4822 051 10008	jumper
4109	4822 051 10008	jumper
4110	4822 051 10008	jumper
4112	4822 051 10008	jumper
4118	4822 051 10008	jumper
4119	4822 051 10008	jumper
4120	4822 051 10008	jumper
4121	4822 051 10008	jumper
4130	4822 051 10008	jumper
4162	4822 051 20008	jumper
4164	4822 051 10008	jumper
4184	4822 051 10008	jumper
4200	4822 051 10008	jumper
4201	4822 051 10008	jumper
4203	4822 051 10008	jumper
4209	4822 051 10008	jumper
4227	4822 051 10008	jumper
4246	4822 051 10008	jumper
4262	4822 051 10008	jumper
4280	4822 051 10008	jumper
4300	4822 051 10008	jumper
4319	4822 051 10008	jumper
4320	4822 051 10008	jumper
4325	4822 051 10008	jumper
4350	4822 051 10008	jumper
4376	4822 051 10008	jumper
4420	4822 051 10008	jumper
4450	4822 051 10008	jumper
4452	4822 051 10008	jumper
4476	4822 051 10008	jumper
4480	4822 051 10008	jumper
4497	4822 051 10008	jumper
4498	4822 051 10008	jumper
4500	4822 051 20008	jumper
4591	4822 051 10008	jumper
4610	4822 051 10008	jumper
4672	4822 051 10008	jumper
4673	4822 051 10008	jumper
9091	4822 051 10008	jumper

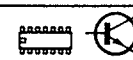


5100	4822 156 20966	47µH 10%
5115	4822 157 51462	10µH 10%
5305	4822 157 62823	26µH 6%
5310	4822 157 52136	82µH 10%
5345	4822 157 62822	4,5µH 6%
5346	4822 157 62823	26µH 6%
5370	4822 157 62824	7,5µH 6%

6117	4822 130 80906	LLZ-F7V5
6120	4822 130 80446	LL4148
6121	4822 130 80446	LL4148
6163	4822 130 81226	LLZ-F33
6172	4822 130 80906	LLZ-C7V5
6173	4822 130 80446	LL4148
6178	4822 130 81222	LLZ-C15
6205	4822 130 80446	LL4148
6206	4822 130 80446	LL4148
6207	4822 130 80446	LL4148
6342	4822 130 80888	BA682
6343	4822 130 80888	BA682
6386	4822 130 80446	LL4148
6387	4822 130 80954	LLZ-C5V6
6400	4822 130 80906	BZV55-C7V5
6450	4822 130 81512	LLZ-C6V2
6465	4822 130 80446	LL4148
6478	4822 130 82346	LLZ-C27
6479	4822 130 80877	BAV103
6480	4822 130 82348	LLZ-F9V1
6481	4822 130 30621	1N4148
6485	4822 130 80446	LL4148
6660	4822 130 80446	LL4148
6661	4822 130 81223	LLZ-C2V4
6662	4822 130 80446	LL4148
6663	4822 130 81223	LLZ-C2V4



7119	5322 130 41982	BC848B
7120	5322 130 41982	BC848B
7121	5322 130 41983	BC858B
7137	4822 209 71521	X2404
7175	5322 130 41982	BC848B
7176	5322 130 41982	BC848B
7182	5322 130 44743	BSR12
7183	5322 130 41982	BC848B
7186	4822 209 73852	PMBT2369
7188	5322 130 41982	BC848B
7190	5322 130 41982	BC848B
7193	4822 209 61115	LF353N
7193	4822 209 83163	LM833N
7216	4822 130 42615	BC817-40
7219	4822 209 63292	TEA6414
7226	5322 130 41983	BC858B
7228	5322 130 41982	BC848B
7258	5322 209 10421	TC4094BP
7260	4822 130 42615	BC817-40
7265	5322 130 41982	BC848B
7305	5322 130 41983	BC858B
7311	5322 130 41982	BC848B
7312	5322 130 42136	BC848C
7313	4822 130 42513	BC858C
7314	5322 130 42136	BC848C
7315	5322 130 42136	BC848C
7324	4822 209 71512	TDA4565/V6
7326	5322 130 42136	BC848C
7338	5322 130 41982	BC848B
7350	5322 130 41982	BC848B
7360	4822 130 42615	BC817-40



7364	4822 209 70019	TDA4510/V2/S8
7365	4822 209 63109	TDA4650/V3
7366	4822 209 63108	TDA4660/V2
7410	4822 209 73852	PMBT2369
7430	4822 209 63298	TDA4680/V4
7450	5322 130 42136	BC848C
7451	5322 130 42136	BC848C
7480	5322 130 44921	BD943
7485	4822 130 42513	BC858C
7486	5322 130 42136	BC848C
7492	5322 130 42136	BC848C
7600	4822 209 63294	TDA8417/V1
7620	4822 209 10263	4052B
7622	4822 209 10263	4052B
7630	4822 209 83163	LM833N
7635	4822 209 83163	LM833N
7660	5322 130 41982	BC848B
7661	5322 130 41982	BC848B
7662	5322 130 41982	BC848B
7680	4822 209 73213	TDA8425/V5
7704	4822 209 83163	LM833N
7706	5322 130 41982	BC848B
7708	5322 130 41983	BC858B
7730	5322 130 41982	BC848B
7732	5322 130 41983	BC858B

PIP PANEL

	4822 265 40503	5P female gold plated
	4822 265 40472	10P female gold plated
	4822 265 30828	5P male

Various parts

1155	4822 320 40051	DELAY LINE DL711
1201	4822 242 70304	crystal 8,867 238 MHz
1212	4822 242 70736	crystal 7,159 090 MHz

2103	4822 122 32444	33pF 5% 50V
2105	4822 122 31766	120pF 5% 50V
2118	4822 122 31775	680pF 5% 50V
2119	4822 122 31808	150pF 10% 50V
2120	4822 122 31807	1200pF 5% 50V
2125	4822 122 32863	22nF 80% 50V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 124 40242	1µF 20% 63V
2161	4822 124 41576	2,2µF 20% 50V
2162	4822 122 32893	100nF 80% 50V
2171	4822 122 31961	68pF 5% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 5% 63V
2180	4822 122 31768	180pF 5% 50V
2181	4822 122 31768	180pF 5% 50V
2185	4822 122 32863	22nF 80% 50V
2187	4822 122 32863	22nF 80% 50V
2189	4822 122 31746	1000pF 5% 50V
2196	4822 122 32893	100nF 80% 50V
2197	4822 122 31385	22pF 5% 50V
2201	4822 122 31746	1000pF 5% 50V
2202	4822 125 50045	20pF
2211	4822 122 31746	1000pF 5% 50V
2212	4822 125 50045	20pF trim.
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 5% 63V
2230	4822 124 40242	1µF 20% 63V
2232	4822 124 41678	22µF 20% 25V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 41578	6,8µF 20% 50V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 32893	100nF 80% 50V
2250	4822 121 51115	270nF 10% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 5% 50V
2260	4822 122 32893	100nF 80% 50V
2270	4822 122 32893	100nF 80% 50V
2340	4822 124 41506	47µF 20% 16V
2345	4822 124 41506	47µF 20% 16V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF
2381	4822 122 32927	220nF
2382	4822 122 32927	220nF
2383	4822 122 32927	220nF
2384	4822 122 32927	220nF
2385	4822 122 32927	220nF
2390	4822 122 32893	100nF 80% 50V
2399	4822 122 31746	1000pF 5% 50V
2404	4822 122 31965	220pF 5% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 5% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31765	100pF 5% 50V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 31965	220pF 5% 63V
2430	4822 122 32893	100nF 80% 50V
2432	4822 122 32893	100nF 80% 50V
2434	4822 122 32893	100nF 80% 50V
2438	4822 121 42472	10nF 10% 50V
2439	4822 121 41856	22nF 5% 100V
2440	4822 122 31765	100pF 5% 50V
2441	4822 122 31965	220pF 5% 63V
2442	4822 124 40242	1µF 20% 63V
2446	4822 122 32893	100nF 80% 50V
2448	4822 122 32893	100nF 80% 50V
2451	4822 121 51379	82nF 10% 63V
2454	4822 122 31972	39pF 5% 50V
2466	4822 122 32893	100nF 80% 50V

2444	4822 051 10224	220k 2% 0,25W
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% LIN
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 116 52204	1k 5% 0,5W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	JUMPER
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10682	6k8 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10471	470Ω 2% 0,25W
3234	4822 051 10361	360Ω 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10471	470Ω 2% 0,25W
3237	4822 051 10332	3k3 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% LIN
3241	4822 051 10271	270Ω 2% 0,25W
3242	4822 116 52204	1k 5% 0,5W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330	4822 051 20008	jumper
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10432	4k3 2% 0,25W
3337	4822 051 10122	1k2 2% 0,25W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 051 10202	2k 2% 0,25W
3341	4822 052 10229	22Ω 5% 0,33W
3345	4822 052 10229	22Ω 5% 0,33W
3353	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10361	360Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10471	470Ω 2% 0,25W
3412	4822 051 10751	750Ω 2% 0,25W
3414	4822 051 10471	470Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52219	330Ω 5% 0,5W
3441	4822 051 10439	43Ω 2% 0,25W
3442	4822 051 10101	100Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52231	820Ω 5% 0,5W
3461	4822 116 52256	2k2 5% 0,5W
3462	4822 116 52287	51k 5% 0,5W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3470	4822 052 10108	1Ω 5% 0,33W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W

jumpers

4001	4822 051 10008	jumper
4002	4822 051 10008	jumper
4003	4822 051 10008	jumper
4004	4822 051 10008	jumper
4005	4822 051 10008	jumper
4006	4822 051 10008	jumper
4007	4822 051 10008	jumper
4010	4822 051 10008	jumper
4011	4822 051 10008	jumper
4012	4822 051 10008	jumper
4048	4822 051 10008	jumper
4100	4822 051 10008	jumper
4201	4822 051 10008	jumper
4401	4822 051 10008	jumper
4402	4822 051 10008	jumper
4403	4822 051 10008	jumper
4404	4822 051 10008	jumper
4406	4822 051 10008	jumper
4407	4822 051 10008	jumper
4415	4822 051 10008	jumper

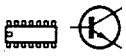
5118	4822 157 60435	10,3µH 6%
5155	4822 157 60433	7,2µH 6%
5157	4822 157 60434	9,4µH 6%
5170	4822 157 60432	10,3µH
5175	4822 157 60432	10,3µH
5190	4822 157 60432	10,3µH
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5404	4822 156 20915	33µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%

6300 482

7103 532
7105 532
7125 482
7126 482
7200 532
7210 532
7233 532
7234 532
7335 532
7337 532
7338 532
7350 482
7380 482
7400 532
7402 532
7404 532
7406 482
7408 482
7410 482
7755 482

PIP PANEL

6300 4822 130 80906 LLZ-C7V5



7103 5322 130 41982 BC848B
7105 5322 130 41982 BC848B
7125 4822 209 62477 TDA4554/V8
7126 4822 209 70019 TDA4510/V2/S8
7200 5322 130 41982 BC848B
7210 5322 130 41982 BC848B
7233 5322 130 41983 BC858B
7234 5322 130 41982 BC848B
7335 5322 130 41982 BC848B
7337 5322 130 41982 BC848B
7338 5322 130 41982 BC848B
7350 4822 130 42616 BC818-40
7380 4822 209 60479 TEA5114A
7400 5322 130 41983 BC858B
7402 5322 130 41983 BC858B
7404 5322 130 41983 BC858B
7406 4822 209 62473 SDA9087
7408 4822 209 63291 SDA9088/2R
7410 4822 209 63293 SDA9086-2
7755 4822 209 72363 TDA2579A/N8

NICAM SOUND MODULE

	4822 265 41087	9 PIN
	4822 265 41087	9 PIN

Various parts

1106	4822 242 72301	filter TH316BOM-20800DAF
1106	4822 242 72303	crystal TH316BQM
1120	4822 242 72302	crystal 5,850 MHz
1120	4822 242 72436	crystal 12 MHz
1140	4822 242 72304	crystal 5,824 MHz

2100	5322 122 31647	1nF 10% 63V
2101	4822 122 31981	33nF +-0,5pF 50V
2102	4822 122 31797	22nF 10% 63V
2106	5322 122 31647	1nF 10% 63V
2107	4822 122 32442	10nF 50V
2110	4822 122 32442	10nF 50V
2111	4822 124 22606	68µF 20% 16V
2112	4822 121 51252	470nF 5% 63V
2113	4822 121 51252	470nF 5% 63V
2115	4822 122 31774	56pF 5% 50V
2117	4822 125 50045	20pF
2118	4822 122 32504	15pF 5% 50V
2120	4822 122 31769	18pF 5% 50V
2121	4822 122 32442	10nF 50V
2122	4822 121 51252	470nF 5% 63V
2124	4822 122 31965	220pF 5% 63V
2125	4822 122 31965	220pF 5% 63V
2126	4822 122 32442	10nF 50V
2127	4822 122 32442	10nF 50V
2128	4822 122 33496	100nF 10% 63V
2130	4822 122 33496	100nF 10% 63V
2132	4822 122 33496	100nF 10% 63V
2134	4822 122 33496	100nF 10% 63V
2136	4822 122 32442	10nF 50V
2137	4822 121 51252	470nF 5% 63V
2138	4822 122 32442	10nF 50V
2139	4822 122 31774	56pF 5% 50V
2140	4822 122 32482	22pF 5% 63V
2141	4822 122 31769	18pF 5% 50V
2142	4822 122 32504	15pF 5% 50V
2143	4822 122 32504	15pF 5% 50V
2144	4822 122 32504	15pF 5% 50V
2145	4822 122 33496	100nF 10% 63V
2150	4822 122 33496	100nF 10% 63V
2152	4822 122 33496	100nF 10% 63V
2154	4822 122 31772	47pF 5% 50V
2155	4822 125 50045	20pF trim.
2156	4822 122 32442	10nF 50V
2158	4822 122 31972	39pF 5% 50V
2159	4822 122 31772	47pF 5% 50V
2165	4822 124 41506	47µF 20% 16V
2166	4822 122 31797	22nF 10% 63V
2170	4822 122 33496	100nF 10% 63V
2171	4822 124 41643	100µF 20% 16V
2175	4822 124 40433	47µF 20% 25V
2176	4822 122 31797	22nF 10% 63V
2177	4822 122 32442	10nF 10% 50V
2177	4822 122 31759	18nF 10% 63V
2178	4822 122 31797	22nF 10% 63V
2178	4822 122 33608	39nF 10% 63V
2179	4822 126 10171	2,7nF 5% 50V
2180	4822 122 32999	2,2nF 5% 50V
2181	4822 122 31773	560pF 5% 50V
2182	4822 121 51252	470nF 5% 63V
2185	4822 124 40433	47µF 20% 25V
2186	4822 122 31797	22nF 10% 63V
2187	4822 122 32442	10nF 10% 50V
2187	4822 122 31759	18nF 10% 63V
2188	4822 122 31797	22nF 10% 63V
2188	4822 122 33608	39nF 10% 63V
2189	4822 126 10171	2,7nF 5% 50V
2190	4822 122 32999	2,2nF 5% 50V
2191	4822 122 31773	560pF 5% 50V
2192	4822 121 51252	470nF 5% 63V
2197	4822 124 40272	33µF 20% 16V
2198	4822 124 40272	33µF 20% 16V
2199	4822 122 32442	10nF 50V

3100	4822 051 10432	4k3 2% 0,25W
3101	4822 051 10103	10k 2% 0,25W
3102	4822 052 10129	12Ω 5% 0,33W
3103	4822 051 10271	270Ω 2% 0,25W
3104	4822 051 10111	110Ω 2% 0,25W
3105	4822 051 10241	240Ω 2% 0,25W
3106	4822 051 10471	470Ω 2% 0,25W
3107	4822 051 10471	470Ω 2% 0,25W
3110	4822 111 30494	2Ω7 5% 0,33W
3112	4822 051 10154	150k 2% 0,25W
3113	4822 051 10224	220k 2% 0,25W
3115	4822 051 10511	510Ω 2% 0,25W
3120	4822 051 10102	1k 2% 0,25W
3122	4822 051 10393	39k 2% 0,25W
3137	4822 051 10393	39k 2% 0,25W
3139	4822 051 10471	470Ω 2% 0,25W
3140	4822 051 10102	1k 2% 0,25W
3142	4822 051 10331	330Ω 2% 0,25W
3145	4822 052 10228	2Ω2 5% 0,33W
3146	4822 051 10101	100Ω 2% 0,25W
3147	4822 051 10101	100Ω 2% 0,25W
3150	4822 111 30494	2Ω7 5% 0,33W
3152	4822 051 10102	1k 2% 0,25W
3153	4822 051 10103	10k 2% 0,25W
3160	4822 051 10104	100k 2% 0,25W
3161	4822 051 10104	100k 2% 0,25W
3162	4822 051 10473	47k 2% 0,25W
3165	4822 111 30494	2,7Ω 5% 0,33W
3166	4822 116 52276	3k9 5% 0,5W
3170	4822 111 30494	2Ω7 5% 0,33W
3175	4822 111 30508	10Ω 5% 0,33W
3177	4822 051 10103	10k 2% 0,25W
3178	4822 051 10182	1k8 2% 0,25W
3179	4822 051 10472	4k7 2% 0,25W
3180	4822 051 10472	4k7 2% 0,25W
3182	4822 051 10183	18k 2% 0,25W
3184	4822 051 10682	6k8 2% 0,25W
3185	4822 111 30508	10Ω 5% 0,33W
3186	4822 051 10008	jumper
3187	4822 051 10103	10k 2% 0,25W
3188	4822 051 10182	1k8 2% 0,25W
3189	4822 051 10472	4k7 2% 0,25W
3190	4822 051 10472	4k7 2% 0,25W
3192	4822 051 10183	18k 2% 0,25W
3196	4822 051 10008	jumper
3197	4822 051 10331	330Ω 2% 0,25W
3198	4822 051 10229	22Ω 2% 0,25W
3198	4822 051 10101	100Ω 2% 0,25W

jumpers

4101	4822 051 10008	jumper
4102	4822 051 10008	jumper
4103	4822 051 10008	jumper
4104	4822 051 10008	jumper
4105	4822 051 10008	jumper
4106	4822 051 10008	jumper
4107	4822 051 10008	jumper
4108	4822 051 10008	jumper
4109	4822 051 10008	jumper

jumpers

4110	4822 051 10008	jumper
4111	4822 051 10008	jumper

5124	4822 157 51238	820µH 10%
5125	4822 157 51238	820µH 10%
5155	4822 157 53575	3,3µH 10%
5160	4822 157 51462	10µH 10%

6154	4822 130 82352	BB215
6197	4822 130 81027	LLZ-C11

7100	5322 130 42136	BC848C
7101	4822 130 60514	BC859B
7110	4822 209 73558	TA8662N
7145	5322 209 10883	PCF8574P
7150	4822 209 61114	CF70123
7160	4822 130 61207	BC848
7165	4822 209 73561	SAA7220P/C
7170	4822 209 73236	TDA1543/N2
7175	4822 209 83163	LM833N
7185	4822 209 83163	LM833N
7195	5322 209 10576	4053B
7198	4822 130 61207	BC848

PICTURE TUBE PANEL

	4822 265 20509	2P male
	4822 265 40596	2P male Vg2
	4822 255 70257	picture tube socket
	4822 267 40985	6P male
	4822 290 40295	7P male

2700	4822 122 33496	100nF 10% 63V
2701	4822 122 33205	12pF 10% 63V
2702	4822 122 31808	150pF 10% 50V
2703	4822 122 33125	180pF 10% 63V
2704	4822 124 23494	10µF 20% 250V
2705	4822 124 40272	33µF 20% 16V
2706	4822 122 31797	22nF 10% 63V
2707	4822 126 11166	1nF 10% 2kV
2708	4822 122 31773	560pF 5% 50V
2709	4822 122 31825	27pF 10% 50V
2711	4822 122 33205	12pF 10% 63V
2713	4822 121 42066	27 nF 10% 400V
2715	4822 121 42066	27 nF 10% 400V
2721	4822 122 33205	12pF 10% 63V

3537	4822 052 11128	1Ω2 5% 0,5W
3700	4822 051 10182	1k8 2% 0,25W
3702	4822 051 10152	1k5 2% 0,25W
3704	4822 051 20222	2k2 5% 0,1W
3705	5322 111 90282	2k4 5% 0,125W
3706	4822 116 52239	120k 5% 0,5W
3708	4822 111 50518	1k5 5% 0,5W
3710	4822 051 10008	jumper
3714	4822 051 20222	2k2 5% 0,1W
3715	5322 111 90282	2k4 5% 0,125W
3716	4822 116 52239	120k 5% 0,5W
3718	4822 111 50518	1k5 5% 0,5W
3719	4822 051 10008	jumper
3720	4822 051 10823	82k 2% 0,25W
3724	4822 051 20222	2k2 5% 0,1W
3725	5322 111 90282	2k4 5% 0,125W
3726	4822 116 52239	120k 5% 0,5W
3727	4822 111 50518	1k5 5% 0,5W
3728	4822 111 50518	1k5 5% 0,5W
3730	4822 111 50518	1k5 5% 0,5W
3731	4822 052 10279	27Ω 5% 0,33W
3732	4822 052 11101	100Ω 5% 0,5W
3734	4822 051 10114	110k 2% 0,25W
3735	4822 051 10103	10k 2% 0,25W
3736	4822 051 10333	33k 2% 0,25W
3737	4822 051 10203	20k 2% 0,25W
3738	4822 116 52304	82k 5% 0,5W
3739	4822 116 52186	22Ω 5% 0,5W
3740	4822 051 10114	110k 2% 0,25W
3741	4822 051 10124	120k 2% 0,25W
3742	4822 051 10333	33k 2% 0,25W
3743	4822 051 10333	33k 2% 0,25W
3744	4822 051 10392	3k9 2% 0,25W
3745	4822 051 10392	3k9 2% 0,25W
3746	4822 116 52276	3k9 5% 0,5W
3751	4822 051 10008	jumper
3752	4822 051 10008	jumper
3753	4822 051 10008	jumper

jumpers

4709	4822 051 10008	jumper
4714	4822 051 10008	jumper
4743	4822 051 10008	jumper
4760	4822 051 10008	jumper

5700	4822 157 52506	12µH 7,5%

6700	4822 130 80879	LLZ-C3V0
6701	4822 130 80877	BAV103
6702	4822 130 80877	BAV103
6703	4822 130 80877	BAV103
6704	4822 130 80877	BAV103
6705	4822 130 80877	BAV103
6706	4822 130 80877	BAV103
6707	4822 130 82345	LLZ-C22
6708	4822 130 30842	BAV21
6709	4822 130 30842	BAV21
6710	4822 130 82192	LLZ-C8V2
6711	4822 130 30842	BAV21
6712	4822 130 80877	BAV103
6713	4822 130 80877	BAV103

7704	4822 130 60373	BC856B
7705	4822 209 63295	TDA6100Q/N2
7706	4822 209 63295	TDA6100Q/N2
7707	4822 209 63295	TDA6100Q/N2
7708	4822 130 41646	BF423
7709	4822 130 41646	BF423
7710	4822 130 41646	BF423

TXT MODULE

	4822 265 41083	10P
	4822 265 41083	10P

Various parts

1110	4822 242 71417	crystal 13,875 000 MHz

2100	4822 124 41576	2,2µF 20% 50V
2101	4822 124 41576	2,2µF 20% 50V
2102	4822 122 31797	22nF 10% 63V
2104	4822 124 41643	100µF 20% 16V
2106	4822 122 33205	12pF 10% 63V
2108	4822 122 32542	47nF 10% 63V
2110	4822 124 41506	47µF 20% 16V
2112	4822 122 32442	10nF 50V
2114	4822 122 32542	47nF 10% 63V
2116	4822 122 31825	27pF 10% 50V
2118	4822 122 32504	15pF 5% 50V
2119	4822 122 32444	33pF 5% 50V
2120	4822 122 32442	10nF 50V
2122	4822 122 32504	15pF 5% 50V
2124	5322 122 31647	1nF 10% 63V
2125	4822 122 31773	560pF 5% 50V
2126	4822 122 31727	470pF 5% 63V
2128	4822 122 31797	22nF 10% 63V
2130	4822 122 32142	270pF 5% 63V
2132	4822 122 31765	100pF 5% 50V
2134	4822 122 32891	68nF 10% 63V
2136	4822 122 31965	220pF 5% 63V
2142	4822 122 31797	22nF 10% 63V
2144	4822 122 31797	22nF 10% 63V
2152	4822 122 31797	22nF 10% 63V
2154	4822 124 40435	10µF 20% 50V
2156	4822 122 31765	100pF 5% 50V
2492	4822 122 31797	22nF 10% 63V

3001	4822 051 10229	22Ω 2% 0,25W
3001	4822 051 10279	27Ω 2% 0,25W
3100	4822 052 10189	18Ω 5% 0,33W
3101	4822 051 10103	10k 2% 0,25W
3102	4822 051 10829	82Ω 2% 0,25W
3103	4822 116 52231	820Ω 5% 0,5W
3104	4822 051 10272	2k7 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10223	22k 2% 0,25W
3108	4822 051 10102	1k 2% 0,25W
3109	4822 051 10562	5k6 2% 0,25W
3110	4822 051 10683	68k 2% 0,25W
3111	4822 051 10472	4k7 2% 0,25W
3112	4822 051 10122	1k2 2% 0,25W
3119	4822 051 10681	680Ω 2% 0,25W
3120	4822 051 10471	470Ω 2% 0,25W
3121	4822 051 10681	680Ω 2% 0,25W
3122	4822 051 10471	470Ω 2% 0,25W
3123	4822 051 10681	680Ω 2% 0,25W
3124	4822 051 10471	470Ω 2% 0,25W
3125	4822 051 10102	1k 2% 0,25W
3132	4822 051 10151	150Ω 2% 0,25W
3134	4822 051 10151	150Ω 2% 0,25W
3136	4822 116 52257	22k 5% 0,5W
3138	4822 051 10472	4k7 2% 0,25W
3140	4822 051 10101	100Ω 2% 0,25W
3142	4822 051 10101	100Ω 2% 0,25W
3144	4822 051 10473	47k 2% 0,25W
3146	4822 051 10102	1k 2% 0,25W
3148	4822 051 10102	1k 2% 0,25W
3150	4822 051 10683	68k 2% 0,25W

3152	4822 051 20222	2k2 5% 0,1W
3154	4822 051 10221	220Ω 2% 0,25W
3156	4822 051 10681	680Ω 2% 0,25W
3158	4822 051 10221	220Ω 2% 0,25W
3160	4822 052 10108	1Ω 5% 0,33W
3489	4822 051 10911	910Ω 2% 0,25W
3490	4822 051 10223	22k 2% 0,25W
3491	4822 051 10472	4k7 2% 0,25W
3492	4822 051 10271	270Ω 2% 0,25W
3493	4822 051 10512	5k1 2% 0,25W
3494	4822 051 10432	4k3 2% 0,25W
3495	4822 051 10511	510Ω 2% 0,25W
3496	4822 051 10202	2k 2% 0,25W

jumpers

4101	4822 051 10008	jumper
4102	4822 051 10008	jumper
4103	4822 051 10008	jumper
4106	4822 051 10008	jumper
4107	4822 051 10008	jumper
4108	4822 051 10008	jumper
4109	4822 051 10008	jumper
4110	4822 051 10008	jumper
4111	4822 051 10008	jumper
4112	4822 051 10008	jumper

5100	4822 157 62821	50µH
5102	4822 157 50965	15µH 10%
5104	4822 157 52392	27µH 10%
5106	4822 157 51235	4,7µH 10%
5108	4822 157 51235	4,7µH 10%

7100	4822 209 72972	SAA5231/V6
7102	4822 209 73879	SAA5243P/E/M2
7104	4822 209 72681	MSM5165ALRS-12
7106	4822 130 61207	BC848
7107	4822 130 42513	BC858C
7108	4822 130 61207	BC848
7110	4822 130 61207	BC848
7112	4822 130 61207	BC848
7114	4822 130 61207	BC848
7116	5322 130 42012	BC858
7490	4822 130 61207	BC848
7491	4822 130 61207	BC848
7492	4822 130 61207	BC848